LEARN FROM THE BEST

PREPARING YOU FOR TOMORROW

Position yourself for the future by aligning your abilities towards the goals. Explore new opportunities in IT and ride the wave of Data Science, AI and beyond.



CEDLEARN



Data Analytics Generate insights from the data through analysis and visualization



Machine Learning Building decision making models to train the machines for automation



Data Science

Data analysis and Statistical modelling to extract insights from the data



Artificial Intelligence

Building intelligence to machines to imitate & surpass human intelligence

Hybrid Learning Project-Based Certified Programs

About Us

We are tech-savvy and professional. Our courses are designed by industry experts along with academicians to ensure all-around competency building, irrespective of the learner's background.

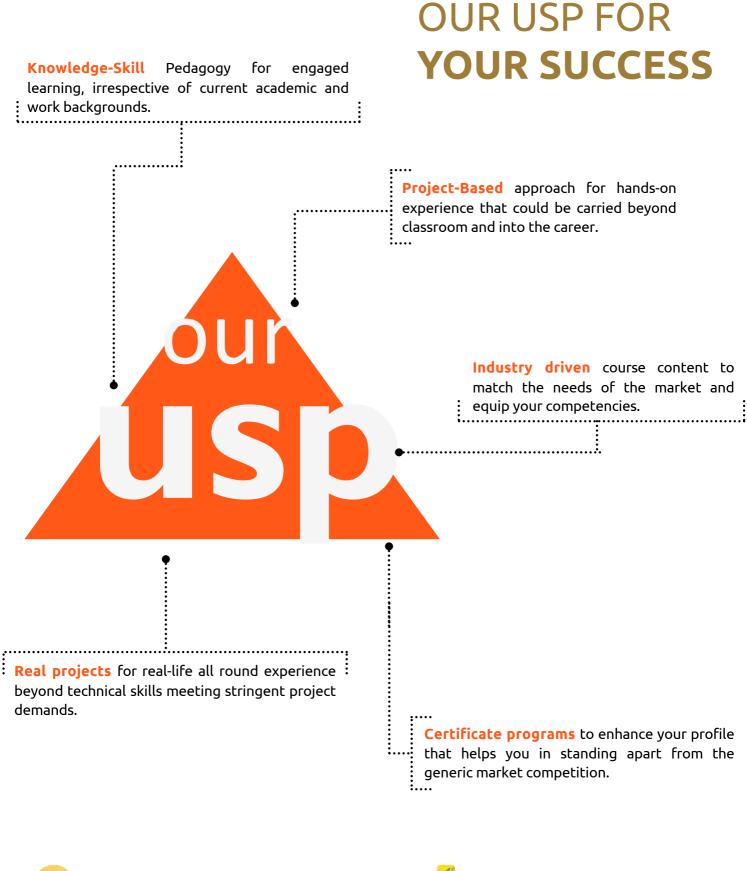
Our promoters are business leaders, entrepreneurs, AI advisory board members, and investors with up-close and personal working experience with the latest technologies.

Our trainers are handpicked from industry and academics to find the right balance between knowledge and skills. Our innovative Knowledge-Skill teaching methodology talks volumes about our expertise.

ENGAGE | APPLY | EXCEL

Engaged learning is the key to mastering any topic. Our pedagogy enhances engagement in learning through knowledge-skill combination so that the learner would display competencies and excel in the aspired career.

CEDLEARN is a brainchild of technocrats to address the dire shortage encountered in identifying the right talent with realtime project experience. We are aware of the market demand and will train you to be a leader.



Certificate Programs to improve your profile and career growth.



Research Driven and practical oriented teaching and engagement.



Interview Preparation as part of the course for better preparation.



Workgroup membership for showcasing your learning & networking, off the course.

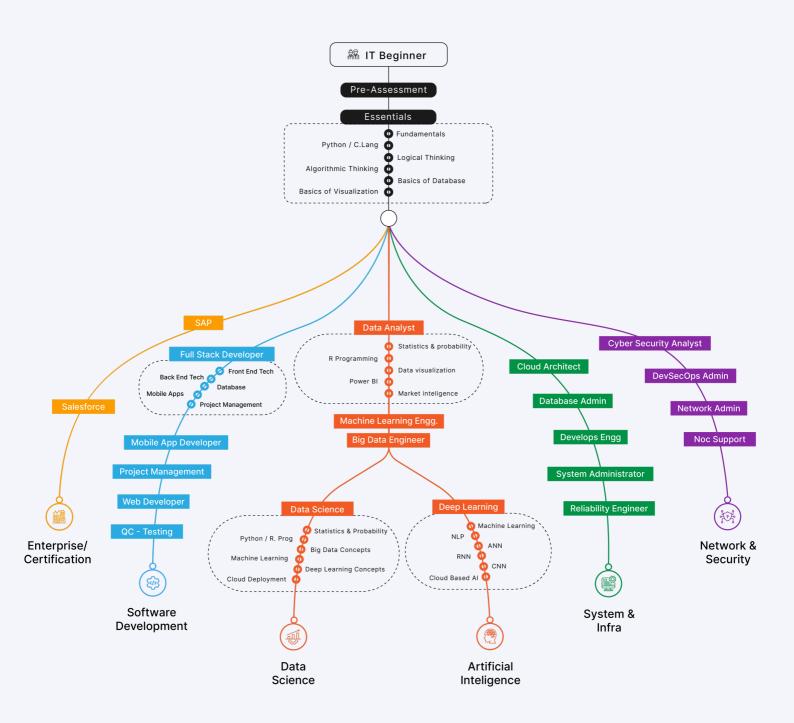
Drafting Career Paths

"If you can't teach it to a 6-year old, you don't understand it yourself."

- ALBERT EINSTEIN

We can... and structured it well for you

Tree Structure to plan your IT career path



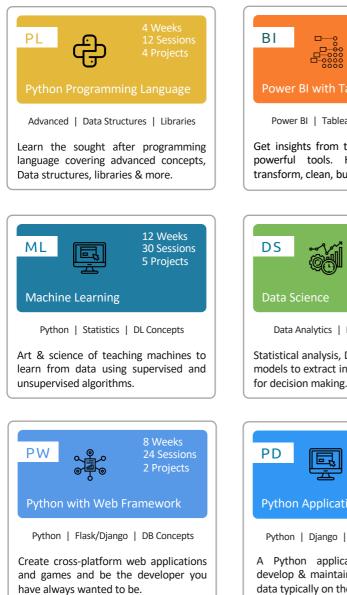
We have simplified the learning curve – Al is an umbrella term that encapsulates all the upcoming technologies opening unlimited opportunities in every field of business. Enabling learners to focus on their aspired careers taking advantage of this opportunity.

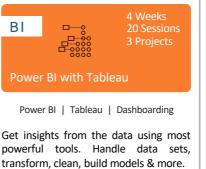
Request for free Career Mapping

IN DEMAND COURSES

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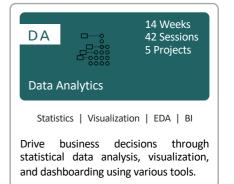


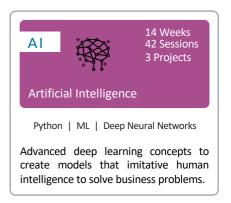


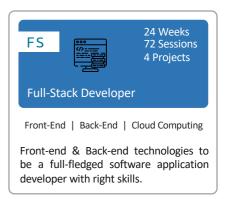








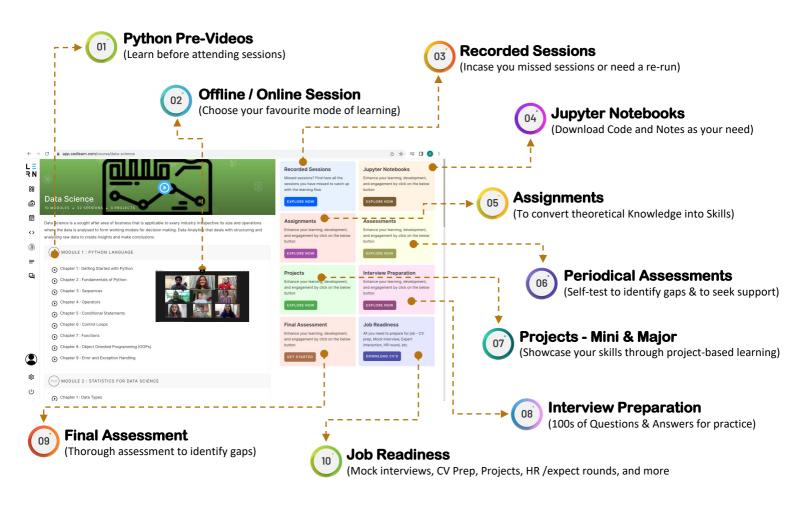


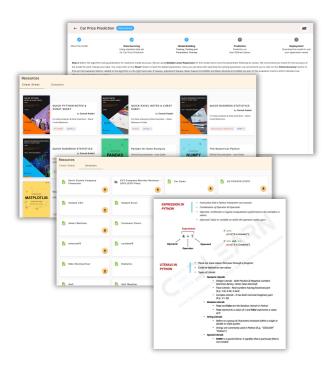


Job Assurance and Job Guarantee Programs Pre & Post, Module-Level Assessments

Learning Supporting Dashboard

Supporting the student's learning path through carefully drafted **10-step** approach for success.





Resources Section

To support your learning we have designed and developed resources section where you could find Cheat Sheets, Datasets for practice and more. You could also visit our Data Analytics and Data Science project page to understand the 5-step approach in solving a problems statement.

Students are encourage to take up various projects and showcase their learning to improve their skill. We believe in Project-based learning which is the core principal of our teaching methodology.

Seeing in believing. Explore Resources and Projects section to rate us.



BUSINESS ANALYTICS

Supporting Business Goals

Duration :: 14 Weeks | 42 Sessions | 5 Projects + 4 Mini Projects Mode :: SHORT | LONG | Online / Offline

Support business processes and project goals using analytical techniques and tools. Learn to meet the business analytical requirement through application of statistical analysis. Generate insights to support decision making in a dynamic business environment. Build you career in this challenging and promising domain to make your mark.

Statistics + Visualization + Business Intelligence

Course Details:

BUSINESS ANALYSIS	VISUALIZATION/DASHBOARDS
 Business Statistics Descriptive & Inferential Statistics; Measures of Central Tendency & Dispersion; Data: Distributions, Quality Analysis & Variability; Probability & Distributions; Sampling Techniques, Estimation Types; Hypothesis Testing & Type I, Type II Errors; Correlation & Variance Analysis: Business Use Cases; Parametric & Non-Parametric Tests 	 Advanced Excel for Analytics Data Importation; Functions & Formulas to Organize Data; Macros, Power Map & Power Pivot; Statistical Functions, Data Analysis Tool pack, Pivot Tables, Business Intelligence Overview of Business Intelligence; Business Intelligence Vs Business Analytics; Deep Analytics Understanding visualization and dashboards
 Data Visualization & Reporting Data Visualisation & Concepts; Types of Charts & Word Cloud; Visualising Data using Infographics; Evaluating an Analytics Report 	 Python Language Basic Python, IDE & IDLE, Data Structures, Functions, OOPs, Exceptions, NumPy, Pandas, Visualization,
• Business Analytics with EDA Insight generation, Business Goals, Business Analytics, Managerial Reporting, Qualitative & Quantitative Analysis; Data Profiling & Management; Inferential Statistics: t, f, z, ANOVA, Chi-Square	 SQL with Power BI Database Types, DDL, DCL, DML, Joins, View and more. Cover Power Query, Power Pivot, Power View, Services, Tableau Intro and more Data Management Understanding Data, Data Sufficiency, Business problem analysis, Project Analysis

"Data Analyst is the front line analytical professional who handles data to drive customer satisfaction, process improvement & innovation"

We have developed this course to encourage learners from both technical and non-technical backgrounds to be a Business Analyst. This is an industry-ready curriculum to impart necessary skills in the learners to handle organizations data analytics needs confidently. Program covers both theoretical knowledge such as Statistical modelling and tools such as Power BI to give the right structure to the learning. Learners could practice various case studies and build their dashboards while solving client's business problems.





DATA ANALYTICS

Data to Insight Generation

Duration :: 14 Weeks | 42 Sessions | 5 Projects + 4 Mini Projects Mode :: SHORT | LONG | Online / Offline

Analysis of data drives businesses through the organization. Organizations are investing heavily in the data processes and tools to mine the data, cleanse it, apply analytical and visualization methods to extract information to drive business decisions. As a Data Analyst, you would involve in the processes to effectively manage processes and customer expectations.

Statistics + Visualization + Python + SQL + Power BI

Course Details:

DATA ANALYSIS	VISUALIZATION/DASHBOARDS
 Business Statistics Descriptive & Inferential Statistics; Measures of Central Tendency & Dispersion; Data: Distributions, Quality Analysis & Variability; Probability & Distributions; Sampling Techniques, Estimation Types; Hypothesis Testing & Type I, Type II Errors; Correlation & Variance Analysis: Business Use Cases; Parametric & Non-Parametric Tests 	 Advanced Excel for Analytics Data Importation; Functions & Formulas to Organize Data; Macros, Power Map & Power Pivot; Statistical Functions, Data Analysis Tool pack, Pivot Tables, Business Intelligence Overview of Business Intelligence; Business Intelligence Vs Business Analytics; Deep Analytics Understanding visualization and dashboards
 Data Visualization & Reporting Data Visualisation & Concepts; Types of Charts & Word Cloud; Visualising Data using Infographics; Evaluating an Analytics Report 	 Python Language Basic Python, IDE & IDLE, Data Structures, Functions, OOPs, Exceptions, NumPy, Pandas, Visualization,
• Exploratory Data Analysis Qualitative & Quantitative Techniques; Data Profiling & Management; Univariate, Bivariate, & Multivariate; Correlation & Co-Variance Matrices; Feature Engineering & Extraction; Inferential Statistics: t, f, z, ANOVA, Chi-Square	 SQL with Power BI Database Types, DDL, DCL, DML, Joins, View and more. Cover Power Query, Power Pivot, Power View, Services, Tableau Intro and more Introduction to Machine Learning Regression, Supervised & Unsupervised Learning, Building ML models and more.

"Data Analyst is the front line analytical professional who handles data to drive customer satisfaction, process improvement & innovation"

We have developed this course to encourage learners from both technical and non-technical backgrounds to be Data Analysts. This is an industry-ready curriculum to impart necessary skills in the learners to handle organizations data analytics needs confidently. Program covers both theoretical knowledge such as Statistical modelling and tools such as Power BI to give the right structure to the learning. Learners could practice various case studies and build their dashboards while solving client's business problems.





MACHINE LEARNING

Teaching Machines through Data

Duration :: 12 Weeks | 30 Sessions | 5 Projects Mode :: SHORT | LONG | Online / Offline

Machine learning can be defined as a concept in which computers or systems are enabled to learn from the data without being programmed. Machine learning is the tool that analyses large amounts of data to identify the underlying patterns using Supervised & Unsupervised methods. Learn to extract insights from the data for decision making

Python + Business Statistics + DL Concepts

Course Details:

PYTHON LANGUAGE	MACHINE LEARNING
 Python Language Fundamentals; Syntax; Keywords; Comments; Variables; Input / Output Operations; Data types; Strings; List; Tuples; Set; Dictionary; Conditional Statements & Control Loops if statement; if-else; Nested if; For; While; Nested Loops; Range; Break Advanced Python - Functions Default; User-defined; Lambda; Nested; Recursion; Decorators; Iterators; Map; Filter Object Oriented Programming Classes; Objects; Principles; Encapsulation; Docstrings & Constructor Error & Exception Handling Errors; Assertions; Exception Handling; User- defined exceptions Statistics for ML 	 Machine Learning Introduction; Libraries; Data Sourcing; E.D.A; Feature Engineering Supervised Learning Linear & Multiple Linear Regression; Logistic & Multiple Logistic Regression; Support Vector Machine; Naïve Bayes; K-Nearest Neighbor; Decision Trees; Ensemble Methods; Optimization Techniques Unsupervised Learning K-Means Clustering; K-Medoid Clustering; DB-Scan Clustering; Optimization Techniques Deep Learning Concepts Introduction to Neural Networks; Artificial Neuron; Artificial Neural Networks; ANN vs CNN; Case Studies Projects
Data Types; Samples; Measures of Central Tendency; Meas. of Dispersion; Positions; Distribution; Sampling; Hypothesis Testing; Probability; Distributions; Prob. Theorems	 Projects 2 Real-time Projects

Through this course, you would solve various hands-on exercises that make you confident to handle any requirement. Post completion of the course the learners could work with organizations to build efficient models. The application part of this course would prepare you for the future and the internship option would give you the necessary exposure.





DATA SCIENCE

Data to Prediction

Duration :: 20 Weeks | 60 Sessions | 4 Projects + 5 Mini Projects Mode :: SHORT | LONG | Online / Offline

Data is life for any organization and making sense of the available data for futuristic business decisions, decides the organization's future. Be it analyzing the trends, empowering management, customer analysis, mitigating risks, fraud detection, and many more, Data Scientists make it happen. We have simplified your path to be a Data Scientist.

Data Analytics + Machine Learning + DL Concepts + Deployment

Course Details:

DATA ANALYTICS	MACHINE LEARNING
 Module 1 Python Language 	 Module 7 Advanced Excel
 Module 2 Business Statistics for Data Science 	 Module 8 Database Concepts - MySQL
 Module 3 Data Analytics & Business Intelligence 	 Module 9 Power BI & Tableau
 Module 4 Machine Learning - Supervised 	 Module 10 Cloud Deployment Techniques
 Module 5 Time Series Analysis 	 Module 11 Deep Learning Concepts
 Module 6 Machine Learning - Unsupervised 	 Project Real-time Project(s)

"Machine Learning is a technique of parsing data, learn from it and then apply what was learned to make an informed decision"

You could *pursue your dream* of being a Data Scientist with basic skills in Statistics, Math and Computer science, irrespective of your academic background. Build your career in the upcoming field of data science.

TAKEAWAYS

Our unique pedagogy ensures the right balance between **KNOWLEDGE** and **SKILLS** through projectbased learning. This **CERTIFICATE** program adds value to your profile and pursuit of career options. What more! we prepare you thoroughly to encounter **INTERVIEWS** to ensure you step into the right career soon after completion of the program.



DATA ANALYTICS

Business Statistics

- Descriptive & Inferential Statistics
- Measures of Central Tendency & Dispersion
- Data: Distributions, Quality Analysis & Variability
- Probability & Distributions
- Sampling Techniques, Estimation Types
- Hypothesis Testing & Type I, Type II Errors
- Correlation & Variance Analysis: Business Use Cases
- Parametric & Non-Parametric Tests

Data Visualization & Reporting

- Data Visualisation & Concepts
- Types of Charts & Word Cloud
- Visualising Data using Infographics
- Evaluating an Analytics Report

Exploratory Data Analysis

- Qualitative & Quantitative Techniques
- Data Profiling & Management
- Univariate, Bivariate, & Multivariate
- Correlation & Co-Variance Matrices
- Feature Engineering & Extraction
- Inferential Statistics: t, f, z, ANOVA, Chi-Square

Advanced Excel for Analytics

- Data Importation
- Functions & Formulas to Organize Data
- Macros, Power Map & Power Pivot
- Numerical Analysis Statistical Functions, Data Analysis Tool pack, Pivot Tables

Business Intelligence

- Overview of Business Intelligence
- Business Intelligence Vs Business Analytics
- Reporting and Dashboarding
- Deep Analytics
- Understanding visualization

Database <u>& SQL</u>

- DB types, DDL, DCL, DMLL Commands
- Joins, Views
- Advanced Queries and Handling Database

SIGN OFF

Real-time Projects

- Data Science Inhouse or Onsite
 - Machine Learning Inhouse or Onsite ** Learner to sign NDA for the intellectual property

MACHINE LEARNING

Python Programming

- Programming Basics using Python
- Scientific & Numerical Computing
- Advanced Python

Supervised Learning

- Linear, Logistic, Lasso, Ridge & Time-Series
- Support Vector Machines (SVM)
- Decision Tress & Random Forest
- K-Nearest Neighbour
- Naive Bayes Classifier

Unsupervised Learning

- Clustering: K-Means, K-Medoids, Hierarchical
- Dimensionality Reduction
- Principal Component Analysis
- Association Rule Mining
- Apriori Algorithm

Adv. Algorithms & Techniques

- Cross Validation Techniques
- Gradient Descent Algorithm
- Ensemble: Stacking, Blanding, Bagging, Boosting
- Optimization: Grid & RandomizedSearchCV

Power BI & Tableau

- Power Query
- Power Pivot Data Modelling & DAX
- Power View
- Power BI Service
- Dashboard development & Collaboration
- Project Execution
- Tableau Introduction

Cloud Deployment

- Deployment & Types
- Flask & Docker
- Deploying over Cloud

Deep Learning Concepts

- Neural Networks
- Activation Functions
- Artificial Neural Networks (ANN)
- Convolution Neural Networks (CNN)
- Recurrent Neural Networks (RNN)
- Sentiment Analysis, Text Analytics, Text Mining

- Profile Building Employability Index
- Interview F.A.Qs
- Mock Interview



Artificial Intelligence

Cognition for the machines

Duration :: 14 Weeks | 42 Sessions | 3 Projects + 2 Mini Projects Mode :: SHORT | LONG | Online / Offline

Developing algorithms to help computers to imitate human intelligence without any limitations, to give life to machines. Brush your basics on understanding and handling data and progress towards mastering neural networks, CV, NLP along with cloud computing for deployment. A sought after course specifically designed for students with or without software background to explore the world of AI and beyond.

MACHINE LEARNING & DEEP NEURAL NETWORKS

Course Details:

 Module 1 Introduction & Essentials 	 Mini Project 1 In-house Project
 Module 2 Python Language 	 Module 7 Recurrent Neural Networks
 Module 3 Machine Learning 	 Module 8 Applications of Deep Learning
 Module 4 Introduction to Neural Networks 	 Module 9 Cloud Deployment Techniques
 Module 5 Artificial Neural Networks (ANN) 	 Major Project Real-time Project(s)
 Module 6 Convolutional Neural Networks (CNN) 	 Hackathon Open challenge

ARTIFICIAL INTELLIGENCE

"AI is an ability of the computer program to function like a human brain "



One-on-One Interaction for effective learning & supporting the needs of the learner. Project-based learning enables learner to complete the course at own pace, within the scheduled period. Includes individual career counselling & necessary support.



Skill development through assessments to understand competencies of the learner and building over the strengths while working on the grey areas. A scientific approach in knowledge transfer for effective learning experience and demonstration of skills.



Application Oriented teaching method for better learning that differentiates from other online and offline programs. Learner could participate in real-time or internal projects or develop solutions along with the WORKGROUP for better competencies & networking.

Python for AI

- Introduction & IDEs
- Basic & Advance Modules
- Libraries for ML
- Coding with Python

Data Visualization

- Types of Data Visualization
- Techniques of Data Visualization
- Dashboarding for Insights
- Tools for Visualization

Introduction to ML

- Machine Learning Concepts
- 5-Stage of Machine Learning
- Training, Testing & Optimization

Recap Supervised & Unsupervised

- Introduction to Supervised & Unsupervised
- Regression & Classifications
- Clustering
- Other Algorithms

Introduction to DL

- Introduction to Artificial Intelligence
- Introduction to ML & DL
- Introduction to Perceptron
- Neural Networks

ANN in Action

- Artificial Neural Networks
- Model Initialization
- Regression
- Classification Binary
- Classification Multi-class

Exploring CNN

- Convolutional Neural Networks
- CNN Architecture, Activation Functions, SoftMax
- Computer Vison Applications
- Transfer Learning
- Object Detection & Recognition
- Sematic Segmentation

Understanding RNNs

- Introduction to RNN
- RNN Architecture & Networks
- Training & Testing RNN
- LSTM's

Natural Lang. Processing

- Introduction to NLP & NLTK Toolkit
- Pre-processing Unstructured Text Data
- Bag of Words, Word2Vec
- Application of text Classification
- 'Sentimental Analysis'
- 'Chat Bot'

Cloud Computing for AI

- Deployment & Types
- Flask & Docker
- Deploying over Cloud

Mini Projects

- Mid-Program practice
- Real-time applications
- Delivery & Presentation

Hackathons

- Solution to an Open Problem
- Mentored by Experts
- Engage with Experts from Industry

Final Real-time Project

- Lab Work Weekly practical work
- Client Project(s) Inhouse or Onsite ** Learner to sign NDA for the intellectual property

Job Readiness

- Profile Building Employability Index
- Interview F.A.Qs
- Mock Interview

SIGN OFF



FULL-STACK DEVELOPER

With Project-Based Training

Duration :: 24 Weeks | 72 Sessions | 4 Projects with Deployment Mode :: SHORT | LONG | Online / Offline

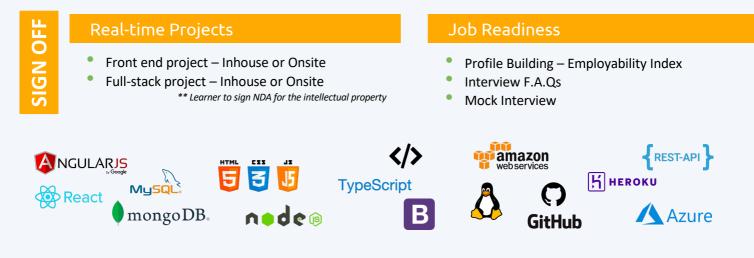
Become a full-stack developer to develop cutting-edge IT web applications to showcase the skills market is looking for. This program was designed and developed by industry experts covering necessary technologies you would need to evolve into a full-stack developer. This program covers frontend, backend, database and deployment techniques.

JS Frameworks + Database + Backend + Cloud Computing

Course Details:

PYTHON LANGUAGE	WEB FRAMEWORK
 The Fundamentals Fundamentals of Programming; HTML & CSS Linux Git & GitHub JavaScript TypeScript JavaScript Framework React JS Angular Database MySQL (RDBMS MONGO DB 	 Backend REST API NODE JS Project Deployment Essential of Deployment Virtual Machines Linux & Heroku Deployment Load Balancing; Firewall Configuration Projects 2 Mini Projects Real-time Projects

Post completion of the course you would gain industry-ready skills to be an independent web application developer. Project-based learning would impart confidence to design, develop, debug and deploy web applications. This course is ideal for those who would like to build their career path in the field of applications development. Be the sought after resource in the market with this Certification, Internship and Job Readiness program.



FUNDAMENTALS

Fundamentals of Programming

- Essentials of Programming Languages
- Algorithmic Thinking; Working with Data
- Structured & Modular Programming
- Object-Oriented Programming

HTML & CSS

- HTML Elements & Structure
- Semantic HTML; Forms & Tables
- CSS Syntax & Selectors
- Grid & Flexbox; Bootstrap & Material UI
- Less & Sass; Variables & Functions
- Responsive Design

Linux

- Basic Linux Commands
- Working with directories
- File & Directory permissions
- SSH & SCP; CRON Jobs

Git & GitHub

- Installation & Setup
- Git Commands; Branches & Tags
- GIT SSH Connection
- Git Stash, Revert, Reset, and diff commands
- Pull Requests; Merge Conflicts

JavaScript

- Scope, Variables & Operators
- Conditional Statements; Loops & Functions
- Object-Oriented Programming
- Functional Programming, Asynchronous JavaScript
- JSON; DOM Manipulation & Data Structures

TypeScript

- TypeScript Basics; Define & Composing Types
- Functions & Interfaces
- Classes & Interfaces
- Decorators; Modules & Namespaces

JAVASCRIPT FRAMEWORKS

React JS

- React Basics and JSX; React Router & Routing
- React Components & Props, Lifecycle Methods
- Composition Vs Inheritance
- React Conditional Rendering
- React Hooks; Session & Local Storage
- Redux ; Progressive Web App (PWA)
- React Testing & Performance

Angular JS

- Setup; Components
- Templates; Directives
- Dependency Injection; Routing and Navigation
- Forms; HTTP Client

DATABASE

MySQL (RDBMS)

- Installation
- Data Types;
- SQL Statements (CRUD)
- JOINS; Functions

MONGO DB

- Introduction & Installation
- Schemas & Relations
- Data Validation & Middleware
- CRUD Operations; MongoDB Queries
- Relationships in MongoDB
- Indexing & Aggregations; Replication & Sharding; MongoDB Security

BACKEND

REST API

- Http Methods;
- Resource Naming;
- HTTP Status Codes;
- API Guidelines

NODE JS

- Node JS Fundamentals
- Express Integration; Node Module System
- Database Integration
- REST API & CRUD Operations
- Data Validation;
- Authentication & Authorization
- Emails and File Uploads; Error Handling
- Node JS Security
- Continuous Integration and Delivery
- Node JS Testing and Performance
- Node JS Project

Deployment

- Virtual Machine & Webserver Setup
- Linux VM Deployment
- Heroku Deployment
- Load Balancing
- Firewall Configuration



Mode :: SHORT | LONG | Online / Offline

For those who would like to start their journey into the world of Data Science or IT by learning a programming language, Python is the best option. This versatile, syntax friendly and a yet powerful language is being widely used by professionals. Learn Python from basics to libraries which makes it one of the powerful programming languages.

Setup + Essentials + Advanced + Libraries

Course Details:

PYTHON LANGUAGE ADVANCED CONCEPTS Getting Started with Python Handling Files Fundamentals; Syntax; Keywords; Comments; File Handling; File operations; Reading & Variables; Input / Output Operations; Data Writing; File object attributes Types Version Control Data Types, Sequences & Operators Git configuration; File & directory; Creating & Data types; Strings; List; Tuples; Set; merging branches; Working on repository **Dictionary; Various Operators** Conditional Statements Web Scraping if statement; if-else; Nested if Introduction; Tools, Virtual Environment; Scraping data with tools; Handling data Control Loops For; While; Nested Loops; Range; Break Python Libraries Advanced Python - Functions Introduction; Matplotlib, Pandas, NumPy, Default; User-defined; Lambda; Nested; SciPy, Scikit-learn; TensorFlow Recursion; Decorators; Iterators; Map; Filter Object Oriented Programming Introduction to Machine Learning Classes; Objects; Principles; Encapsulation; Introduction; Supervised & Unsupervised **Docstrings & Constructor** algorithms; Model Building; Case Studies Error & Exception Handling Errors; Assertions; Exception Handling; User-Projects defined exceptions 2 Real-time Projects

The content of the course takes you through various essential and advanced concepts to make you ready for programming. Post completion of the course you could take the path towards Machine learning or work on being a developer. Skills in Python language is sought after in the industry. Work on your learning path today and start your journey.



- Profile Building Employability Index
- Interview F.A.Qs
- Mock Interview



Duration :: 8 Weeks | 24 Sessions. | 2 Projects + 1 Deployment Mode :: SHORT | LONG | Online / Offline

No doubt Python is a versatile and powerful programming language. Be it development or machine learning Python is the popular language among many developers. Coupled with Web Development Frameworks such as Flask or Django there are unlimited opportunities for the students and professionals to be cross-platform web application developers.

Python + Flask / Django + Database

Course Details:

PYTHON LANGUAGE	WEB FRAMEWORK
 Getting Started with Python Fundamentals; Syntax; Keywords; Comments; Variables; Input / Output Operations; Data Types 	 Database Concepts MySQL Basics, Queries; CRUD operations; MySQL DB; Connection with Frameworks;
 Data Types, Sequences & Operators Data types; Strings; List; Tuples; Set; Dictionary; Various Operators 	 Flask Framework Overview; Environment; Features; Creating Application; Views; Dynamic Routing; Errors Debugging: Elack Tomplate Engine (line 2);
• Conditional Statements if statement; if-else; Nested if	& Debugging; Flask Template Engine (Jinja2 Layouts; Static Templates; Static Files; Form Handling; HTTP Verbs; Sessions Handling, Flashing, Navigator Bar, Hosting Options
 Control Loops For; While; Nested Loops; Range; Break Advanced Bath on Exactions 	 Django Framework
 Advanced Python - Functions Default; User-defined; Lambda; Nested; Recursion; Decorators; Iterators; Map; Filter 	Environment Overview; Features; Project Structures; App Structures; Views and Con URLS; Template System; Static files; Model
 Object Oriented Programming Classes; Objects; Principles; Encapsulation; Docstrings & Constructor 	Migration; Model forms; File upload; Mail System; Session Management; User authentication; Model views & inheritance; Query sets & Filters; Middleware
• Error & Exception Handling Errors; Assertions; Exception Handling; User- defined exceptions	 Projects 2 Real-time Projects

This course has been specifically designed to train professionals to learn Python and its web framework to turn themselves into web application developers. Out of all the available Python Frameworks, Flask and Django are proven to be popular. Students have the opportunity to pick any one of these two and work their way towards deploying the web applications in a real-time environment.





PYTHON APPLICATION DEVELOPER

With Django & MySQL

Duration :: 12 Weeks | 36 Sessions | 2 Projects + 1 Deployment Mode :: SHORT | LONG | Online / Offline

Application developers are always on demand. These days with increasing demand for the backend developers Python Application Developer course is the best option for the students who would like to start their journey with python and eventually evolve into a professional back-end Python developer to create web, mobile and desktop applications.

Python + Django + MySQL + Project Deployment

Course Details:

PYTHON LANGUAGE	WEB FRAMEWORK
 Getting Started with Python Fundamentals; Syntax; Keywords; Comments; Variables; Input / Output Operations; Data Types 	 Database Concepts MySQL Basics, Queries; Tables; CRUD; Joins; Set Operators; Aggregations
 Data Types, Sequences & Operators Data types; Strings; List; Tuples; Set; Dictionary; Various Operators 	 Django Framework Environment Overview & Features; Project Structures; App Structure; GIT & GITHUB; Views and Config URLS; Working with Mode and Databases; Configuring of MySQL; GET & POST – CRUD operations; Postman Tool; Use Authentication & Authorization; Cookie Management; Session Management; Django Middleware; File upload; Mail System; Project Deployment
• Conditional Statements if statement; if-else; Nested if	
• Control Loops For; While; Nested Loops; Range; Break	
 Advanced Python - Functions Default; User-defined; Lambda; Nested; 	
Recursion; Decorators; Iterators; Map; Filter	Project Deployment
 Object Oriented Programming Classes; Objects; Principles; Encapsulation; Docstrings & Constructor 	Virtual Machine; SSH & SCP; Environment Setup; Code Deployment; Database Configuration; Webserver configuration; Domain configuration; Load Balancing
 Error & Exception Handling Errors; Assertions; Exception Handling; User- defined exceptions 	 Projects 2 Real-time Projects

This practical hands-on course was designed and developed by industry professionals to impart necessary knowledge and skills in the students to be a independent back-end developers. Learn the language and framework to be market-ready as soon as you complete the course. Students get the opportunity to deploy their projects to build their profile as part of the course work.



- Profile Building Employability Index
- Interview F.A.Qs
- Mock Interview



Duration :: 5 Weeks | 20 Sessions. | 3 Projects - BI & Dashboards Mode :: SHORT | LONG | Online / Offline

Insight from the data is essential for decision making and Power BI helps in connecting with the disparate data sets, transform, clean to build a data model or visualization that could be shared with other business stakeholders. This is a powerful and essential tool for every data analyst to quickly gather, analyze, publish and share data in an useful way.

Power BI + SQL + Tableau + Dashboarding

Course Details:

POWER BI	DASHBOARDING
 Glimpse of Power Bl Introduction, Business Intelligence, Installation, Service Overview, Publishing Power Query Extract, Transform & Load (ETL); Data Types & filters; Column & Row Transformations; Combine queries - Append, Union, Merge/Join Power Pivot Data Modelling-Relationship View; Data Model - DAX; Various DAX Functions - Date & Time, Text, Logical, Math & Statistical, Filter, Time Intelligence Power View Report/Power view, Filters, Grouping, Binning & Sorting, Hierarchies & Drill Down, Power Visualizing techniques; Filtering, Categorical Data, Trend Data, KPI Data, Tabular & Geographical Data Essential SQL Introduction, Database Types, DDL, DCL, DML Commands, Joins & Views 	 Power BI Service Power BI service Introduction, Dashboards Development, Data Gateways, Collaboration using App Workspace, Sharing Content using Apps & Content Packs, Row level security in Power BI Tableau - Getting Familiar Introduction, Installation and setup, Basic operations, Functions, Data Handling, Visualization Techniques, Excel Dashboarding Introduction to Advanced Excel Concepts, Descriptive analytics & Pivoting, Dashboarding & Reporting Final Project 3 Real-time Projects - Various domains for Visualization & Dashboarding

This course has been specifically designed to train professionals to master the powerful business intelligence tools to connect the data together, create custom visuals, integrate with other application, extract insights from the data, perform advanced analytics, bring together data governance and security, address specific business problems using data, embed Power BI tiles in PowerApps Apps and more.











- Profile Building Employability Index
- Interview F.A.Qs
- Mock Interview



Embedded Systems

Ensemble Hardware & Software

Duration :: 20 Weeks | 60 Sessions | 2 Projects + 4 Mini Projects Mode : Offline - Project-based Learning

Embedded Systems and IoT are continuing to grow in a wide range of applications in a wide range of industries. These technologies have the potential to transform the way we live and work. Currently the demand for Embedded Systems is increasing multi-fold hence, encouraging students to pursue this promising technology.

Hardware + Embedded Programming + IoT Concepts

Course Details:

Hardware	Embedded Programming
 Module 1 Introduction to Embedded System 	 Module 7 8051 - Microcontroller
 Module 2 Microprocessor Vs Microcontroller 	 Module 8 ARM Controllers
 Module 3 Basic Electronics 	 Module 9 Wired & Wireless Networks
 Module 4 Essential of Embedded Systems 	 Module 10 Embedded Linux
 Module 5 Python Programming Language 	 Module 11 TinyML
 Module 6 Embedded C 	 Project Real-time Project(s)

"Embedded Systems future is bright and is projected to grow exponentials expected realise a market side of \$160B by 2031"

You could *pursue your dream* of being a Embedded System Engineer with basic skills in Hardware, Software, IoT, TinyML, Microcontrollers and more. Build career in upcoming field of Embedded Systems.

TAKEAWAYS

Our unique pedagogy ensures the right balance between **KNOWLEDGE** and **SKILLS** through projectbased learning. This **CERTIFICATE** program adds value to your profile and pursuit of career options. What more! we prepare you thoroughly to encounter **INTERVIEWS** to ensure you step into the right career soon after completion of the program.













Introduction to Embedded Systems

- History of Embedded Systems
- Need of Embedded Systems
- Emerging Applications & Opportunities
- Programming Language Classification
- Advantages & Disadvantages

Microprocessor Vs Microcontroller

- Understanding Differences
- Classification based on Architecture
- Memory Classification
- Application Classification

Basic Electronics

- Introduction to Electronics
- Current & Voltage
- Resistor & Capacitors
- Semiconductor Devices
- Building Analog Circuits

Essentials of Embedded Systems

- Sensors & Modules
- GPIO Peripherals
- Interrupts & Low Power
- Timer Devices
- Pulse-Width Modulation
- Interfacing External Devices

Python Programming Language

- Introduction to Python
- Essentials of Python
- Variables & Data Types
- Data Structures
- Conditional Statements
- Control Loops
- Functions
- Exception Handling
- OOPs Concepts
- Libraries

GN OFF

Real-time Projects

- Hardware– Inhouse or Onsite
 - Embedded Systems- Inhouse or Onsite ** Learner to sign NDA for the intellectual property

Embedded C

- Introduction to Embedded C
- Difference between C & Embedded C
- Structure of C
- Constants, Variables & Data Types
- Operators
- Control Structures & Loops
- Functions

8051 Microcontroller

- Introduction
- Features & Architecture
- Registers & Memory
- Programming Peripherals

ARM Controllers

- Introduction to ARM
- Raspberry Pi Controller
- IoT Concepts
- IoT Development Board
- ESP & Other Controllers
- Real-life Applications

Wired & Wireless Networks

- I2C Bus Standard
- Bluetooth
- Zigbee
- USB
- UART

Embedded Linux

- Linux Fundamentals
- Linux Commands
- VI Editors
- Introduction to Device Driver
- Kernel Module Vs Application
- Types of Device Driver and more

TinyML

- Introduction & Data Gathering
- Designing a ML
- Deployment & Training

- Profile Building Employability Index
- Interview F.A.Qs
- Mock Interview

Project-Oriented Approach encourages students to participate in inhouse or real-time customer projects or pursue their next million dollar project dream while showcasing their experiential learning. Our in-house equipment and experts are at your disposal.

Our Learner Engagement

Unique Project-based approach to enhance the learner participation

Inhouse Projects



Classroom Sessions



Lab Hardware



Latest Learners Projects

- AI based firewall for the server
- Robotic Arm control
- Dashboarding for Deep Analytics
- Facial recognition for rostering
- Operating System for Deep Learning
- Stock & Portfolio prediction
- MSE through AI
- and more...



This is your last chance. After this, there is no turning back... You take the red pill—you stay in Wonderland, and I will show you how deep the rabbit hole goes.

Remember: All I'm offering is the truth. Nothing more."

- Morpheus of MATRIX

Our Suggestion – Take the **RED** pill of Artificial Learning



Hyderabad | Bangalore | Delhi | Chennai | Kochi

