DATA SCIENCE PROGRAM

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Make career in the most booming & futuristic industry

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ALL BIG COMPANIES RELY ON DATA

Companies like Google, Facebook, Uber, Netflix etc rely on data to make business decisions.

It is one of the hottest jobs available in the market today.

NO PRIOR TECHNICAL SKILLS REQUIRED.

WHAT IS DATA SCIENCE?

Data scientist is one of the best suited professions to thrive this century. It is digital, programming-oriented, and analytical.

Data science is the process of using method and systems to extract information and insights from various data sets by using analytics and machine learning. It help businesses make predictions, enhance optimization, and improve marketing operations.

Advances in AI, machine learning and automation have raised the demand for data scientists in the market today.

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LEARNING PATH IN DATA SCIENCE

Data Scientist in making

1. **Intro to Data & Data Science field**

2. **Linear algebra** to understand advanced machine learning algorithms

3. **Statistics** to start thinking like a scientist.

4. **Python** to develop, implement, and deploy machine learning models through powerful frameworks such as scikit-learn, TensorFlow, etc

5. **Tableau** to present and visualise the Big data's story

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LEARNING PATH IN DATA SCIENCE

Data Scientist in making

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6. **Predictive Modelling through Regressions, clustering, and factor analysis**

7. **Machine learning** techniques and deep learning methods with TensorFlow.

THINGS TO LEARN

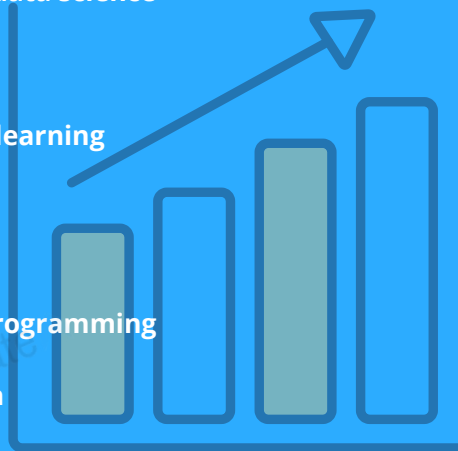**PYTHON**

MACHINE LEARNING

TABLEAU

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DATA MINING

PREDICTIVE MODELLING

MySQL

SQL

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Module 1.

- **Introduction to data science**
- **Data science era**
- **Data science involvement in industries**
- **Business intelligence vs. data science**
- **Data science life cycle**
- **Tools of data science**
- **Introduction to python**
- **Introduction to machine learning**
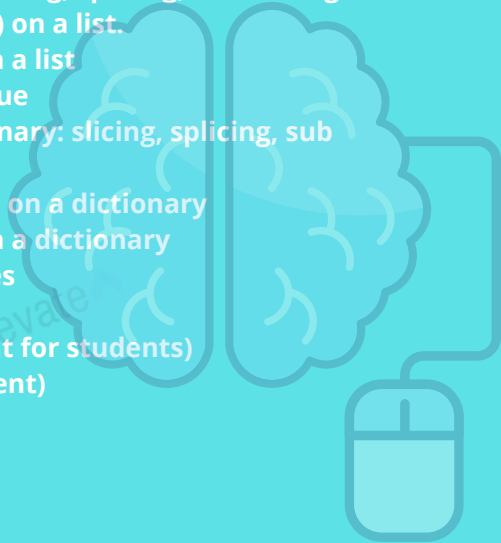
Module 2

- **Introduction to python programming**
- **Introduction to python**
- **Basic operation in python**
- **Variable assignment**
- **Functions: In-built functions user defined functions**
- **Condition: if, if-else, nested if-else, else-if**
- **Pre reads (attachment for students)**
- **Assignment (for students)**
- **Assignment solutions**

Module 3.

- **Data structures- introduction**
- **List: different data types in a list, list in a list**
- **Operation on a list: Slicing, splicing, sub setting**
- **Condition (True/false) on a list.**
- **Applying functions on a list**
- **Dictionary: index, value**
- **Operation on a dictionary: slicing, splicing, sub setting**
- **Condition (true/false) on a dictionary**
- **Applying functions on a dictionary**
- **Modules and packages**
- **Regex operations**
- **Pre reads (attachment for students)**
- **Assignment (for student)**
- **Assignment solutions**

Module 4

- **Introduction to SQL (structured query language)**
- **Basic SQL statement**
- **Advanced SQL (searching, sorting, grouping)**
- **Accessing data bases using python**
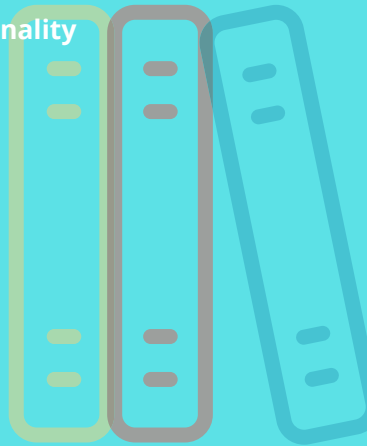
Module 5

- **Data types in an array, dimensions of an array**
- **Operations on array: indexing, slicing, splicing, sub – setting**
- **Conditional (T/F) on an array**
- **Loops: for, while**
- **Shorthand for For**
- **Controls statements**
- **Shape manipulation**
- **Linear algebra**

Module 6.1

- **Pythons pandas- Home**
- **Python pandas- introductions**
- **Pythons pandas- environment setup**
- **Introduction to data structures**
- **Python pandas – series**
- **Python pandas – data frames**
- **Python pandas-panel**
- **Python pandas – basin functionality**
- **Function application**
- **Python pandas – reindexing**
- **Python pandas – iteration**
- **Python pandas – sorting**
- **Working with text data**
- **Options & customization**
- **Indexing & selecting data**

Module 6.2

- **Python pandas – missing data**
- **Python pandas – group bt=y**
- **Python pandas – merging/ joining**
- **Python pandas – concatenation**
- **Python pandas – data functionality**

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- **Python pandas – categorical data**
- **Python pandas – visualization**
- **Pre reads (attachment for students)**
- **Assignment (for student)**
- **Assignment solution**

Module 7

- **Intro to statistics**
- **Statistical inference**
- **Terminologies of statistics, descriptive statistics**
- **Statistical functions measures of centers'**
- **Mean**
- **Median**
- **Mode measures of spread**
- **Variance standard deviation**
- **Histogram probability**
- **Normal distribution**
- **Binary distribution**
- **Skewness**
- **Bell curve**
- **Hypothesis building and testing**
- **Chi-square test**
- **Correlation matrix**
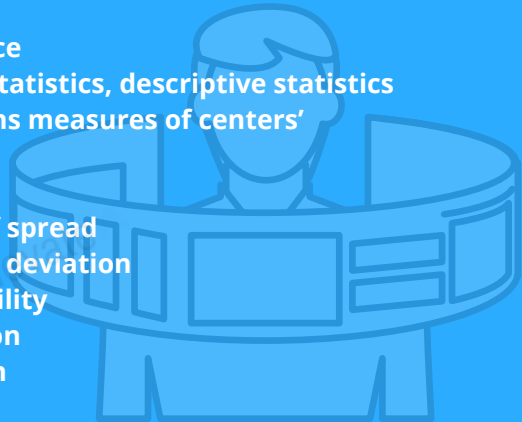
Module 8

- Scientific computing with python
- SciPy and its characteristics
- SciPy sub-packages
- SciPy sub-packages – integration
- SciPy sub-packages –optimize
- Linear algebra
- SciPy sub-packages –statistics

Module 9

- Data analysis pipeline
- What is data extraction
- Types of data (Raw and processed data)
- Data wrangling exploratory data analysis data visualization matplotlib
- Bar plot
- Histogram plot
- Box plot
- Area plot
- Scatter plot
- Pie plot
- Seaborn
- Pre reads (attachment for students)
- Assignment solution
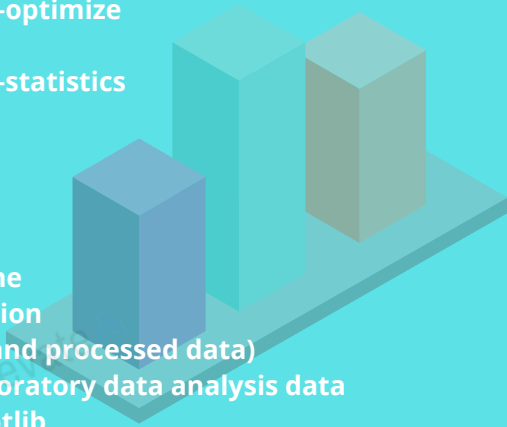
Module 10

- **Introduction to machine learning**
- **Machine learning use-cases**
- **Machine learning process flow**
- **Machine learning categories**

Module 11

- **Data pre- processing**
- **Data preparation**
- **Intro to scikit learn**

Module 12

- **Regression**
- **Types**
- **Algorithms**
- **Linear regression**
- **RMSE**
- **R2 Score**
- **Logistic regression**
- **Introduction to dimensionality**
- **Why dimensionality reduction**
- **PCA**
- **Factor analysis**

- **Scaling dimensional model**
- **Encoding**
- **Implementation with case studies**
- **Intro to kaggle and UCI repository**
- **Pre reads (attachment for students)**
- **Assignment solution**

Module 13

- **Classification K-nearest neighbours**
- **Metrics**
- **Confusion matrix**
- **Classification report**
- **Support vector machines**
- **Kernel**
- **Working of SVM**
- **Naïve Bayes**
- **Hyperparameter Optimization**
- **Decision tree classifier**
- **Random forest classifier**
- **Ensemble techniques and SVM tuning**
- **Underfitting and overfitting**
- **Entropy**
- **AUC-ROC Curve**
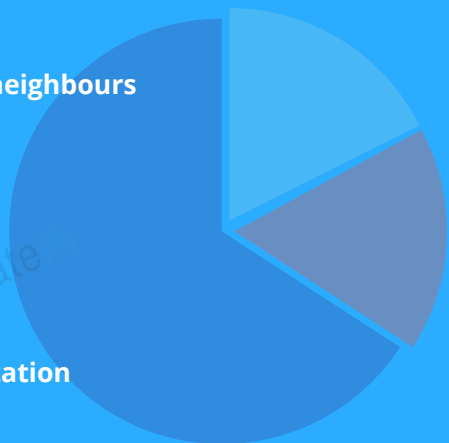
- **Implementation with case studies**
- **Cross-validation**
- **Pre reads (Attachment for students)**
- **Assignment (for student)**
- **Assignment solution**

Module 14

- **Unsupervised learning**
- **Clustering algorithms**
- **K-means clustering**
- **Hierarchical clustering**
- **Implementation with case studies**
- **Pre-read (attachment for students)**
- **Assignment (For students)**
- **Assignment solution**
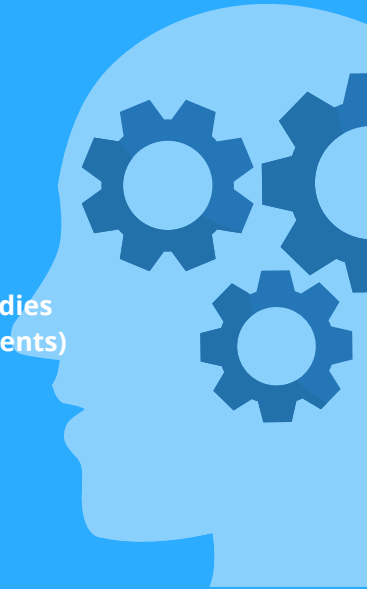
Module 15

- **Recommendation engine**
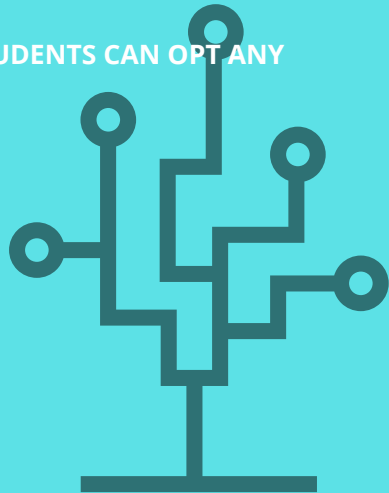- **Collaborative filtering**
- **12 + industries real time case studies**

Module 16

- **SPECIALIZATION COURSE: STUDENTS CAN OPT ANY ONE ELECTIVE**

ELECTIVE 1:

- **Power BI**
- **Selenium**
- **Beautiful soup**
- **Tableau**

ELECTIVE 2:

- **Deep learning**
- **Artificial Neural Network**
- **Convolutional neural network**
- **Recurrent neural networks**
- **Power BI**
- **Tableau**

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TOOLS COVERED

Everything you need to become a Data Scientist

pandas

colab

NumPy

SQL

matplotlib

python

OpenCV

Keras

Power BI

R

TensorFlow

jupyter

ANACONDA

tableau

PyTorch

SPYDER

scikit learn

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