

IELEVATE INSTITUTE

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

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1. **Intro to Data & Data Science field**
2. **Python** to develop, implement, and deploy machine learning models through powerful frameworks such as scikit-learn.
3. **Statistics** to start thinking like a scientist.
4. **Machine learning** techniques with Sklearn.
5. Predictive Modelling with machine learning and deep learning techniques.

LEARNING PATH IN DATA SCIENCE

Data Scientist in making

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

7. **Web scraping**

Extract useful data from websites by performing web scraping using Beautiful soup
Selenium

THINGS TO LEARN



PYTHON



MACHINE LEARNING



TABLEAU



**DATA
MINING**



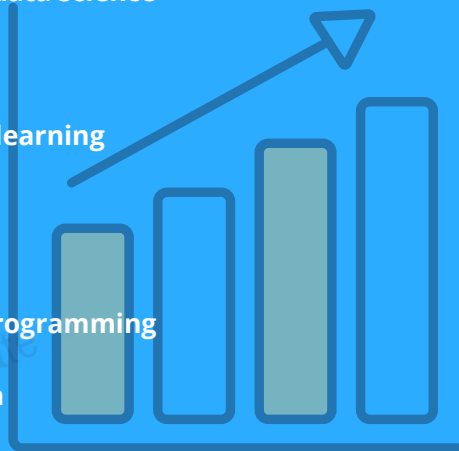
**PREDICTIVE
MODELLING**



SQL

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

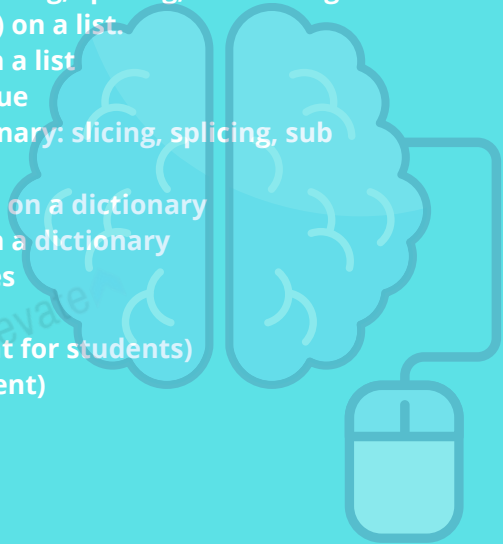


Module 2

- 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

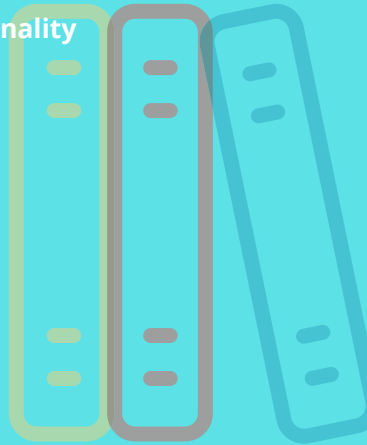
- Data types in an array, dimensions of an array
- Operations on array: indexing, slicing, splicing, sub - setting
- Conditional (T/F) on an array
- Loops: for, while
- Shorthand for For
- Controls statements
- Shape manipulation
- Linear algebra

Module 6.1

- Python's pandas- Home
- Python pandas- introductions
- Python's 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

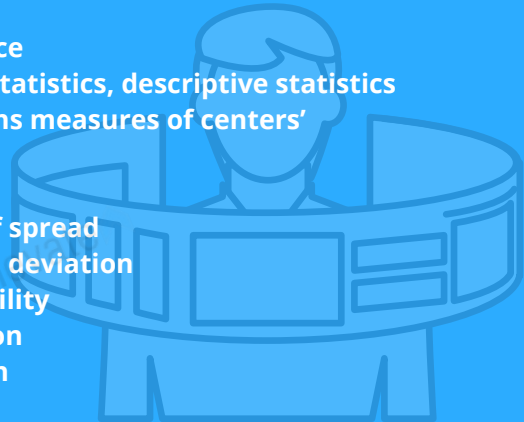
- Python pandas - missing data
- Python pandas - group by=y
- Python pandas - merging/ joining
- Python pandas - concatenation
- Python pandas - data functionality



- 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
- 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

- Linear regression
- Linear regression assignment
- Logistic regression
- Naive Bayes
- Model Selection
- Advanced Regression
- Advances Regression Assignment
- Support vector machines
- Tree Models
- Model Selection - Practical
- Considerations



Module 13

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

Module 14

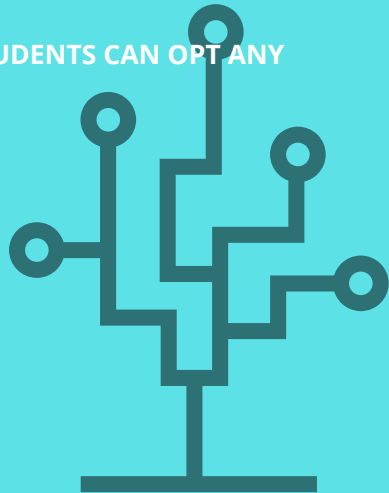
- SPECIALIZATION COURSE: STUDENTS CAN OPT ANY ONE ELECTIVE

ELECTIVE 1:

- Power BI
- Selenium
- Beautiful soup
- Web scraping

ELECTIVE 2:

- Deep Learning
- Tableau






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- 
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Work on 16+ hot Projects

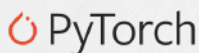


Get hands on
practical
exposure

Work on projects of most in demand sectors like Aviation, Finance and Banking, Ecommerce, Healthcare, Human resource etc.

TOOLS COVERED

Everything you need to become a Data Scientist



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