SHAPEAI

BECOME A DATA ANALYST.

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MID - MAY, 2021 TO JUNE 2021
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Learn, get certified from top institutions and companies, and then intern with us Get .placed in your dream companies . Limited seats (only 120 seats available) Join NOW!!!

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BENEFITS:

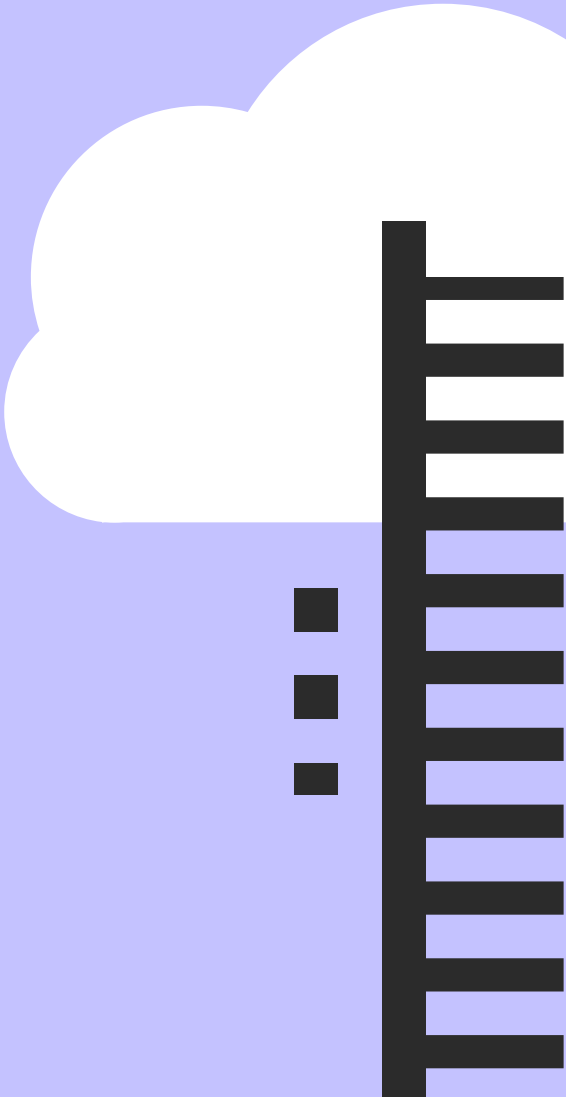
- Data Structures and Algorithms
- Competitive coding Daily
- 1hr LIVE Doubt Session Every Day
- 2hr LIVE Classes Every Day
- Recordings for all the LIVE classes
- 10+ certificates from top MNC's
- Paid Internship Opportunities
- Fast Doubt Solving
- Interview Preparation
- Letter of Recommendation Certificates and many Projects.

TOPICS WE WILL BE COVERING:

- **Data Structures and Algorithms**

In this part we will be covering all the basic and advance topics that are needed to get started with Data Analysis.

1. Introduction
2. Mathematics
3. BitManipulation
4. Recursion
5. Arrays
6. Searching
7. Sorting
8. Matrix
9. Hashing
10. Strings
11. Linked Lists
12. Stack
13. Queue
14. Deque
15. Trees and BST
16. Heap
17. Graph
18. Greedy Algorithms
19. BackTracking
20. Dynamic Programming
21. Trie
22. Segment and Binary Indexed Trees
23. Disjoint Sets



- ## Introduction to Python

In this part we will be covering all the basic and advance topics that are needed to get started with Data Analysis.

1. Data Types and Operators
2. Control Flow
3. Scripting
4. Object Oriented Programming in Python

- ## Statistics for Data Analysis

In this part we will be covering the use of descriptive statistics. This will give the readers a good intuition for the data and use of statistical inference to draw a conclusion based on the results.

1. Learn about constructs, population vs sample, correlation vs causation, hypotheses, and experimentation.
2. Visualising Data, Central Tendency, Variability, Standardizing.
3. Normal and Sampling Distribution.
4. Estimation, Hypothesis Testing.
5. t-tests and much more.

- ## Intro to Data Analysis

Go through the entire data analysis process, starting by posing a question and finishing by sharing your findings.

1. Anaconda and Jupyter Notebooks
2. Data Analysis Process
3. Numpy and Pandas (in-depth)
4. **CAPSTONE PROJECT:** Investing a Dataset

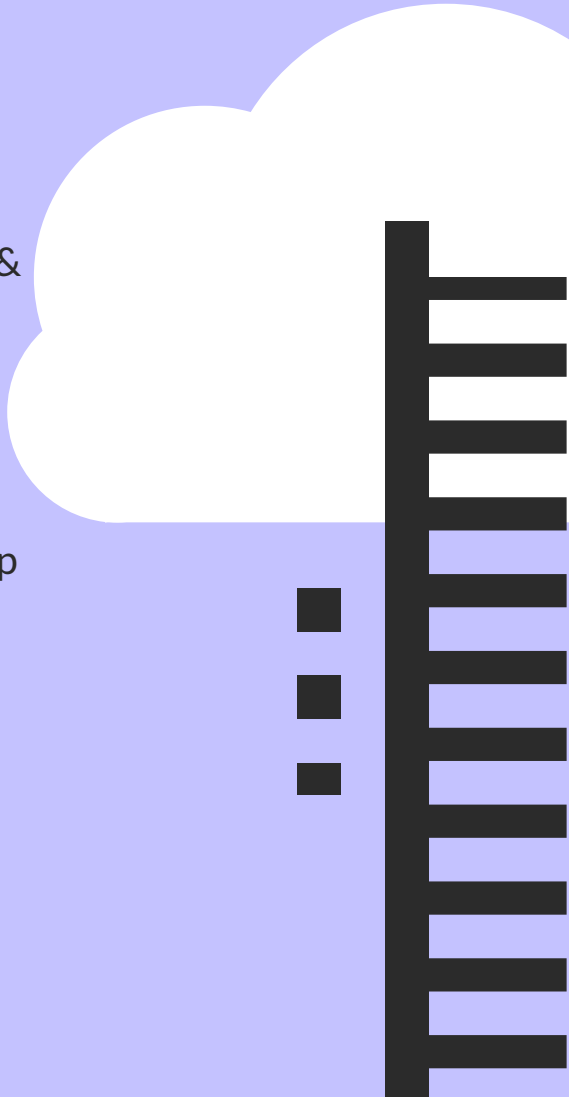
- ## Data Wrangling

Learn the data wrangling process of gathering, assessing, and cleaning data. Learn how to use Python to wrangle data programmatically and prepare it for deeper analysis.

1. Gathering Data
2. Assessing Data
3. Cleaning Data
4. Working with Tabular, CSV, Excel and JSON data
5. Learn about HTML and XML
6. Use BeautifulSoup to scrape web pages.
7. Data Quality

- ## SQL for Data Analysis

1. Basic SQL, SQL Joins, Aggregations, Subqueries & Temporary Tables, SQL Data Cleaning, Window Functions.
2. SQL Advanced JOINs & Performance Tuning
3. Accessing database using python
4. **CAPSTONE PROJECT:** Wrangle OpenStreetMap Data



- **Intro to Machine Learning**

We will learn the mathematics, intuition and code all the machine learning algorithms.

1. Simple, Multiple and Polynomial Linear Regression
2. Support Vector Regression
3. Decision Tree Regression
4. Random Forest Regression
5. Logistic Regression
6. K-Nearest Neighbors
7. Support Vector Machine (SVM)
8. Kernel SVM
9. Naive Bayes
10. Decision Tree Classification
11. K-Means Clustering
12. Hierarchical Clustering
13. Apriori
14. Eclat
15. Upper Confidence Bound(UCB)
16. Thompson Sampling
17. Natural Language Processing (NLP)

- **Intro to Deep Learning**

We will learn the mathematics, intuition and code all the deep learning algorithms. We will introduce Keras, Tensorflow, Pytorch

1. Artificial Neural Nets (ANN)
2. Convolutional Neural Nets (CNN)
3. Recurrent Neural Nets (RNN)
4. Self Organizing Maps (SOMs)
5. Boltzmann MAchine
6. Autoencoders and GANs
7. Natural Language Processing (NLP)

- **Dimentionality Reduction, Model Selection and Boosting**

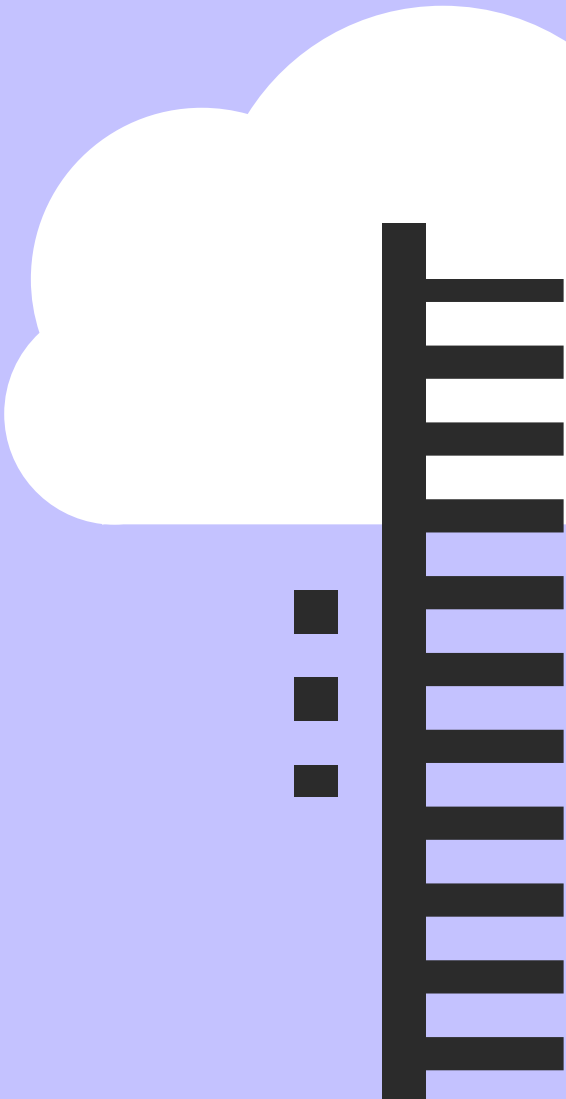
We will finish off learning Machine Learning and deep learning with these final topics

1. Principal Component Analysis (PCA)
2. Linear Discriminant Analysis (LDA)
3. Kernel PCA
4. Model Selection
5. XGBoost

- **Intro to Data Visualization**

We will learn the important visualisation libraries in python.

1. Seaborn
2. Matplotlib



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ONE TIME PAYMENT

FOR ENTIRE 2.5 MONTH LONG TRAINING & INTERNSHIP

RS.5500

The cost will include the certification of training. On the completion of the final project ,you will recieve a completion of internship certificate and a letter of recommendation as well. As all the topics that you cover will also come with a small quiz, upon the completion of the quiz you will receive certificates from IBM, Google, Michigan, and many more companies and universities(for FREE). Limited seats (120) so apply now...

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