# DIGI TECH

## Course Content
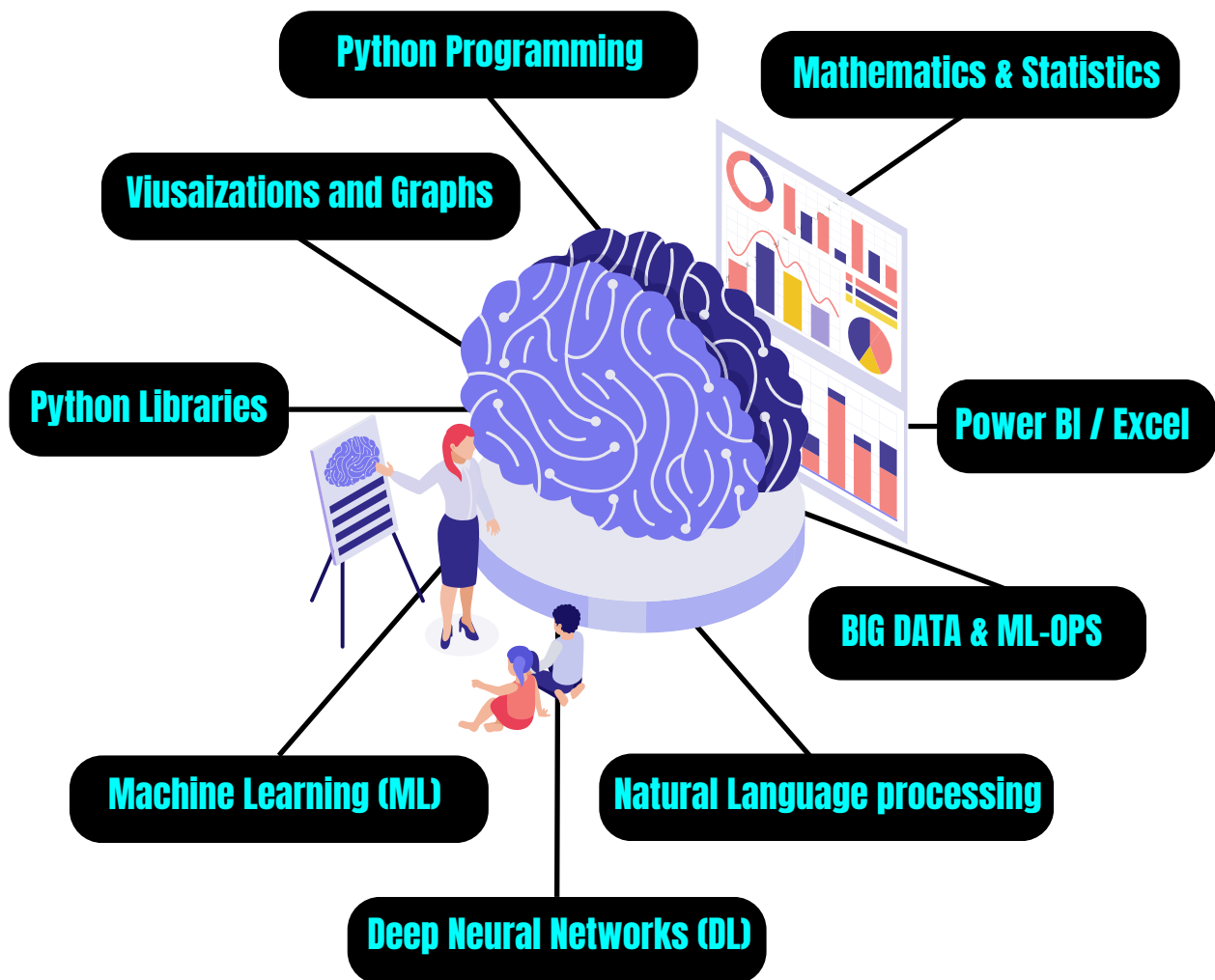# DATA SCIENCE WITH A.I.

## Course Objective :

- To understand the vital nature of data, explore, analyse, develop and deploy machine learning, deep learning and NLP models.
- Also synchronously working towards Interview cracking skills and making job ready professionals.

## Course at a glance :



- Python Programming
- Mathematics & Statistics
- Viusaizations and Graphs
- Python Libraries
- Power BI / Excel
- BIG DATA & ML-OPS
- Machine Learning (ML)
- Natural Language processing
- Deep Neural Networks (DL)

## Key Features

- Duration : 3-4 months.
- Class Duration : 1.5 HRS. (Mon-Sat)
- Real time use cases and projects included.
- Assured Job and Internship Opportunities.
- Training material with Exercises.
- Assignments and Quizzes.

## PYTHON

- Introduction to programming.
- Data types, Operators, Conditional statements.
- Loops, Functions, Recursion, lambdas, List Comprehensions.
- Classes and Objects, Exception Handling, Modules, Packages.
- String handling, Manipulations
- Numpy, Pandas , Matplotlib and Seaborn
- Project Work with Assesments

## MATHS / STATS

- Linear Algebra
- Calculus
- Probability
- Discrete Mathematics
- Descriptive and Inferential statistics.
- Central Limit Theorem
- Multivariate and regression analysis
- Experimental Design
- Time Series Analysis

## ML / DL / NLP

- Supervised , Unsupervised Learning.
- Algorithms, Mathematical Intuition.
- Perceptron, ANN, CNN, RNN
- LSTM, GRU's, Transformer Model
- Feature Engineering
- Data transformation
- Model Deployment
- Cloud Services
- Generative AI models

## PROJECTS

- CANCER PATIENT DETECTION USING MACHINE LEARNING
- US COST OF LIVING PREDICTION
- MULTI DISEASE CLASSIFICATION
- IMAGE DETECTION
- FACIAL RECOGNITION
- OBJECT DETECTIONS
- SENTIMENT ANALYZER
- ADVANCED CHATBOTS
- TRANSFORMER PROJECTS
- MULTI PURPOSE LLM'S

## POWERBI / EXCEL

- Data Cleaning
- Data PreProcessing
- Data Visualization
- Data Modeling
- DAX (Data Analysis Expressions)
- Power Query
- PivotTables
- Advanced Charting
- Data Validation
- Dashboard Design

## SQL (DBMS)

- Database Management System
- RDBMS and Non RDBMS
- MySQL, NoSQL, PostGreySQL
- DDL
- DML
- DQL
- DCL
- Schema
- Joins, Nested Joins
- SQL query Optimisation.
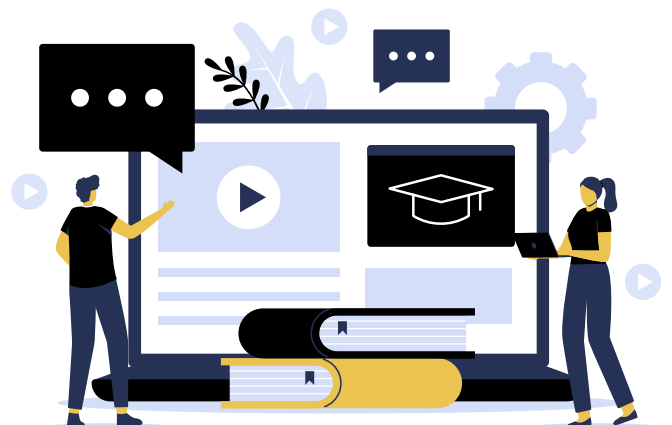
**HIGH PAYING SALARIES**

**MOST DEMANDING TECHNOLOGY**

**VERSATILE APPLICATIONS**

## Course also Includes :

1. Doubt Clearing Sessions
2. Mentorship Sessions
3. Real Time Projects
4. Full Day Practice Labs
5. Industry Expert Guest Lectures
6. Internship & Job Opportunities