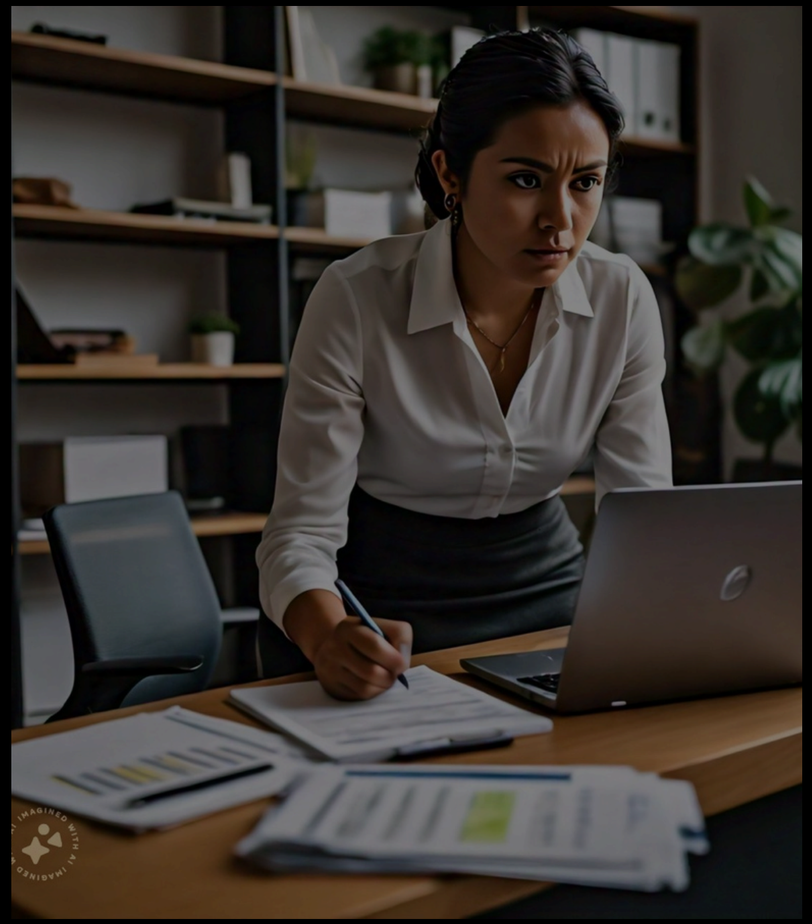
TS
TECH TEACH
EDUCATIONALSOLUTIO

DATA Analytics

OUR MISSION :



"Our mission is to empower learners worldwide through innovative technology, personalized learning experiences, and accessible educational resources. We strive to cultivate a community where every individual can achieve their full potential, regardless of their background or circumstances."

OUR VALUES :

"To pioneer the future of education by leveraging cutting-edge technology to make learning more engaging, effective, and inclusive. We envision a world where education transcends boundaries, creating opportunities for lifelong learning and fostering a society enriched by knowledge and creativity."

COURSE CURRICULUM:

Week 1: Introduction to Data Analytics

- Day 1-2: Overview of Data Analytics
  - Definition and importance of data analytics.
  - Applications and career opportunities in data analytics.
- Day 3-4: Tools and Environment Setup
  - Introduction to Excel, SQL, and Python for data analysis.
  - Setting up the analysis environment (Jupyter Notebook, Anaconda, etc.).
- Day 5: Basic Python Programming
  - Python basics: data types, variables, control structures, functions.

COURSE CURRICULUM:

Week 2: Data Collection and Cleaning

- Day 1-2: Data Collection Methods
  - Data sources (structured vs. unstructured data).
  - Web scraping, APIs, and data importing.
- Day 3-4: Data Cleaning Techniques
  - Handling missing data and duplicates.
  - Data transformation and normalization.
- Day 5: Practical Data Cleaning
  - Hands-on project involving data cleaning and preprocessing.

COURSE CURRICULUM:

Week 3: Data Manipulation and Analysis with Excel and SQL

- Day 1-2: Data Manipulation with Excel
  - Excel functions and formulas.
  - Pivot tables, charts, and dashboards.
- Day 3-4: Introduction to SQL
  - Basic SQL queries: SELECT, INSERT, UPDATE, DELETE.
  - Joining tables, filtering, and sorting data.
- Day 5: Advanced SQL Techniques
  - Subqueries, views, and indexing.
  - Hands-on project using SQL for data analysis.

COURSE CURRICULUM:

Week 4: Data Visualization

- Day 1-2: Introduction to Data Visualization
  - Importance of data visualization in analytics.
  - Principles of effective data visualization.
- Day 3-4: Visualization with Excel and Tableau
  - Creating various types of charts and graphs in Excel.
  - Introduction to Tableau: connecting to data sources, creating dashboards.
- Day 5: Visualization with Python
  - Using libraries like matplotlib, seaborn, and Plotly.
  - Hands-on project creating visualizations with Python.

COURSE CURRICULUM:

Week 5: Statistical Analysis

- Day 1-2: Descriptive Statistics
  - Measures of central tendency (mean, median, mode).
  - Measures of dispersion (variance, standard deviation).
- Day 3-4: Inferential Statistics
  - Hypothesis testing, confidence intervals.
  - t-tests, chi-square tests.
- Day 5: Practical Statistical Analysis
  - Hands-on project involving statistical analysis of a dataset.

COURSE CURRICULUM:

Week 6: Predictive Analytics and Machine Learning Basics

- Day 1-2: Introduction to Predictive Analytics
  - Overview of predictive modeling techniques.
  - Use cases and applications of predictive analytics.
- Day 3-4: Machine Learning Basics
  - Introduction to supervised and unsupervised learning.
  - Overview of common algorithms (linear regression, decision tree
- Day 5: Practical Predictive Analytics
  - Hands-on project building a predictive model.

COURSE CURRICULUM:

Week 7: Business Intelligence and Reporting

- Day 1-2: Introduction to Business Intelligence (BI)
  - Overview of BI concepts and tools.
  - Role of BI in data-driven decision making.
- Day 3-4: Reporting with Power BI
  - Connecting to data sources, creating reports and dashboards.
  - Hands-on project creating a business report in Power BI.
- Day 5: Advanced Reporting Techniques
  - Custom visualizations, DAX formulas.
  - Integrating multiple data sources.

COURSE CURRICULUM:

Week 8: Final Project and Presentations

- Day 1-4: Final Project Development
  - Students work on a comprehensive final project that integrates multiple aspects of the curriculum.
- Day 5: Project Presentation and Evaluation
  - Students present their projects.
  - Feedback and evaluation.

Our Partners Company's

FOR SUPPORT

+91 9652379012

www.techteachedsols.com

tech.ed.sols@gmail.com

THANK YOU

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