



Empower Excel Elevate

10 Weeks Program in
DATA ANALYSIS
Integrated with **Top experts from MNCs**

ABOUT COMPANY

An Idea of learning and upskilling every single day for the hope of a better tomorrow.

LearnFlu is nothing but an Idea. An Idea of learning and upskilling every single day for the hope of a better tomorrow. LearnFlu is also a disease, which every being alive wishes to have. A disease of learning something new and interesting for the growth they desire



WE OFFER



PROGRAM HIGHLIGHTS

WHY THIS PROGRAM IS YOUR BEST CHOICE

- 01 LIVE INTERACTIVE SESSIONS WITH INDUSTRY EXPERTS
- 02 MENTOR-DRIVEN SPRINT-BASED REAL-WORLD TEAM PROJECTS
- 03 LIVE MENTORSHIP
- 04 PERSONALISED MENTORSHIP AND CAREER GUIDANCE
- 05 CAREER ASSISTANCE
- 06 DOUBLE CERTIFICATION & CREDIT REPORT
- 07 PLACEMENT ASSISTANCE

COURSE CURRICULUM



Curriculum Summary: > Total Modules: 8 > Total Chapters: 24 > Total Hours: 36 hours

Data Analysis Curriculum is designed to provide a well-rounded understanding of data analysis using Python, data visualisation with Power BI/Tableau, data cleaning techniques, statistical analysis, vector operations, and supervised learning. It equips learners with the skills to handle real-world data, analyse it effectively, and present insights through powerful visualisations and reporting.

Module 1: Introduction to Data Analysis and Python for Data Analysis
Chapter 1: Overview of Data Analysis
 - Importance of data analysis in various industries
 - Overview of the data analysis process: collection, cleaning, exploration, analysis, and reporting
 - Types of data: structured vs unstructured, categorical vs numerical
Chapter 2: Introduction to Python for Data Analysis
 - Installing Python and setting up the environment
 - Key Python libraries for data analysis (NumPy, Pandas, Matplotlib)
 - Basic Python syntax: variables, loops, and functions
Chapter 3: Data Structures and Operations in Python
 - Introduction to lists, dictionaries, and sets
 - DataFrames and Series using Pandas
 - Basic operations with DataFrames: indexing, filtering, and sorting

Module 3: Exploratory Data Analysis (EDA) and Vector Operations
Chapter 1: Introduction to Exploratory Data Analysis
 - Importance of EDA in data analysis
 - Descriptive statistics: mean, median, mode, variance, and standard deviation
 - Overview of data visualisation for EDA
Chapter 2: Vector Operations in Python
 - Introduction to vectors and their role in data analysis
 - Vectorized operations using NumPy
 - Practical examples of vector operations in data analysis
Chapter 3: Data Visualization for EDA
 - Visualizing data distributions (histograms, box plots)
 - Identifying relationships between variables using scatter plots
 - Introduction to pair plots and correlation heatmaps

Module 2: Data Cleaning and Transformation
Chapter 1: Importance of Data Cleaning
 - Understanding dirty data and its impact on analysis
 - Overview of the data cleaning process: identifying, cleaning, and handling outliers
 - Steps to clean data and ensure accuracy
Chapter 2: Handling Missing Data and Duplicates
 - Techniques for handling missing data (imputation, removal)
 - Detecting and removing duplicates
 - Dealing with inconsistent data formats
Chapter 3: Data Transformation Techniques
 - Normalisation and standardisation of data
 - Encoding categorical variables (one-hot encoding, label encoding)
 - Feature engineering and creating new variables

Module 4: Statistical Analysis and Correlation Coefficient
Chapter 1: Introduction to Statistical Analysis
 - Importance of statistics in data analysis
 - Descriptive vs inferential statistics
 - Basic statistical concepts: population, sample, probability
Chapter 2: Hypothesis Testing and P-Values
 - Formulating null and alternative hypotheses
 - Performing t-tests and chi-square tests
 - Interpreting p-values and statistical significance
Chapter 3: Correlation and Covariance
 - Understanding correlation and its significance in data analysis
 - Pearson correlation coefficient and Spearman rank correlation
 - Calculating covariance and interpreting relationships between variables

Module 5: Introduction to Supervised Learning (SL) and Linear Regression
Chapter 1: Supervised Learning Concepts
 - What is supervised learning?
 - Types of supervised learning: classification and regression
 - Introduction to labelled datasets and training models
Chapter 2: Simple and Multiple Linear Regression
 - Understanding linear regression and its applications
 - Building linear regression models using Python (Scikit-learn)
 - Evaluating model performance (R-squared, mean squared error)
Chapter 3: Model Interpretation and Overfitting
 - Interpreting coefficients in a linear regression model
 - Preventing overfitting with regularisation (Lasso, Ridge)
 - Cross-validation and model tuning

Module 7: Advanced Statistical Analysis
Chapter 1: Multiple Regression and Logistic Regression
 - Understanding multiple regression and its uses
 - Introduction to logistic regression for binary classification
 - Implementing regression models in Python
Chapter 2: Statistical Inference and Confidence Intervals
 - Overview of statistical inference
 - Calculating and interpreting confidence intervals
 - Applications of confidence intervals in real-world scenarios
Chapter 3: ANOVA and Chi-Square Tests
 - Analysis of Variance (ANOVA) for comparing means
 - Performing chi-square tests for categorical data
 - Interpreting results and reporting findings

Module 6: Data Visualization with Power BI/Tableau
Chapter 1: Introduction to Power BI/Tableau
 - Overview of data visualisation tools: Power BI and Tableau
 - Setting up and connecting to data sources
 - Understanding the Power BI/Tableau interface
Chapter 2: Creating Visualisations and Dashboards
 - Creating charts: bar, line, scatter, and pie charts
 - Building interactive dashboards with filters and slicers
 - Best practices for effective data storytelling
Chapter 3: Advanced Visualization Techniques
 - Using advanced visuals: heatmaps, treemaps, and geospatial data
 - Customising charts with calculated fields and parameters
 - Feature engineering and creating new variables

Module 8: Data Reporting and Communication of Insights
Chapter 1: Creating Reports and Presentations
 - Structuring data analysis reports
 - Key elements of a data report: executive summary, methodology, results
 - Tools for report generation (Jupyter Notebooks, Google Docs)
Chapter 2: Telling a Story with Data
 - Communicating insights clearly and effectively
 - Tailoring presentations for different audiences
 - Best practices for creating data-driven presentations
Chapter 3: Final Project and Case Study
 - Applying learned techniques in a real-world data analysis project
 - Analysing data, building visualisations, and presenting findings
 - Peer review and feedback on project work

2 Weeks Major Projects

Jobs You Can Apply

- ◆ Data Analyst , ₹4 – ₹10 LPA
- ◆ Business Analyst , ₹5 – ₹12 LPA
- ◆ Junior Data Scientist , ₹6 – ₹14 LPA
- ◆ Product Analyst , ₹6 – ₹13 LPA
- ◆ Marketing Analyst , ₹5 – ₹10 LPA
- ◆ Financial Analyst (Tech-focused) , ₹5 – ₹9 LPA

Projects

- ◆ Sales Data Analysis
- ◆ Customer Segmentation
- ◆ Exploratory Data Analysis (EDA) on Titanic Dataset

TOOL BOX



MEET YOUR MENTOR



Shrijith
Company : TCS
Experience : 5+ years

Shrijith is a seasoned mentor with an impressive 7+ years of experience in TCS and a notable presence in more than 2 multinational corporations. Specializing in the field of cloud computing, Shrijith has contributed his expertise to the successful completion of 20+ projects, with a remarkable individual accomplishment of leading over 2 projects. Beyond technical excellence, he is recognized for his strong leadership qualities. Shrijith's commitment to knowledge transfer is evident through his role in training employees across different companies, further solidifying his reputation as a mentor who not only delivers outstanding results but also nurtures and develops talent within the data engineering domain.

PLACEMENT SERVICES

- REACH YOUR DREAM JOB :**
AT LEARNFLU, WE ARE DEEPLY COMMITTED TO YOUR LEARNING JOURNEY AND DEDICATED TO YOUR CAREER SUCCESS. OUR COMPREHENSIVE PLACEMENT SERVICES ARE TAILORED TO EQUIP YOU WITH THE SKILLS, CONFIDENCE, AND CONNECTIONS NECESSARY TO SECURE YOUR DREAM TECH JOB
- RESUME PREPARATION :**
CRAFT A STANDOUT RESUME WITH EXPERT GUIDANCE TO EFFECTIVELY HIGHLIGHT YOUR SKILLS AND EXPERIENCE, ENSURING YOU CATCH THE ATTENTION OF RECRUITERS.
- SOFT SKILL PREPARATION :**
ELEVATE YOUR COMMUNICATION, TEAMWORK, AND LEADERSHIP ABILITIES WITH ENGAGING LIVE SESSIONS AND CUSTOMIZED FEEDBACK, DESIGNED TO HELP YOU EXCEL IN ANY PROFESSIONAL SETTING.
- HIRING PARTNERS & CAREER PORTAL :**
GAIN ACCESS TO LEADING TECH COMPANIES THROUGH OUR EXTENSIVE NETWORK OF HIRING PARTNERS AND OUR EXCLUSIVE CAREER PORTAL, DESIGNED TO CONNECT YOU WITH YOUR IDEAL JOB OPPORTUNITIES.
- MENTORSHIP**
GAIN HANDS-ON EXPERIENCE THROUGH INTERNSHIPS AND MENTORED PROJECTS, EARNING AN INDUSTRY CERTIFICATE

ADDITIONAL SERVICES

- LinkedIn optimization**
Optimizing your LinkedIn profile can greatly enhance your professional online presence and increase your
- Career Guidance**
Career guidance plays a vital role in helping individuals navigate the complex and often challenging world of work.
- Career Opportunities**
Career opportunities are essential as they provide pathways for personal and professional growth, financial stability, and the fulfillment of individual potential and aspirations.
- Hands-on experience**
The importance of hands-on experience, especially in the context of professional development and education, is very substantial to land your first job.
- Personality Development**
Personality development is crucial as it enhances overall personal growth, fosters confidence, and improves interpersonal skills, leading to success in both personal and professional life.



CREDIT VALIDATION REPORT

COURSE COMPLETION CERTIFICATE



STUDENTS REVIEWS

- 5★ Sravan**
Very good internship program. My mentors are teaching me more technical stuff. I also recommend my friends to do this internship.
- 5★ Vasavi**
This is the best internship provider with major projects with best experienced mentors.
- 5★ Sarvani**
This is the best internship and training provider company with 100% job assistance
- 5★ Raghu Roy**
This is the best internship provider with major projects with best experienced mentors.
- 5★ Aradhana**
Learnflu seamlessly merges education and technology, offering a dynamic platform for immersive learning experiences. With innovative tools and engaging content, Learnflu elevates the educational landscape.

- 5★ Kashish**
Very good internship program. My mentors are teaching me more technical stuff. I also recommend my friends to do this internship.
- 5★ Dinakaran**
Thank you so much learnflu for giving this wonderful opportunity and developed my knowledge.
- 5★ Aju Koshan**
I enrolled for web Data Analysis Program for April batch and yesterday was my induction session and session was so good and the mentor Syed Ateem have given very insightful information about this internship and Training Programme and I am very much excited regarding the program
- 5★ Priya**
This is a very good learning platform which offers students training and internship program

OUR ALUMNI WORKS AT



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