

# Empower Excel Elevate

**10 Weeks** Program in  
**DATA  
SCIENCE**  
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*

## SUCCESS

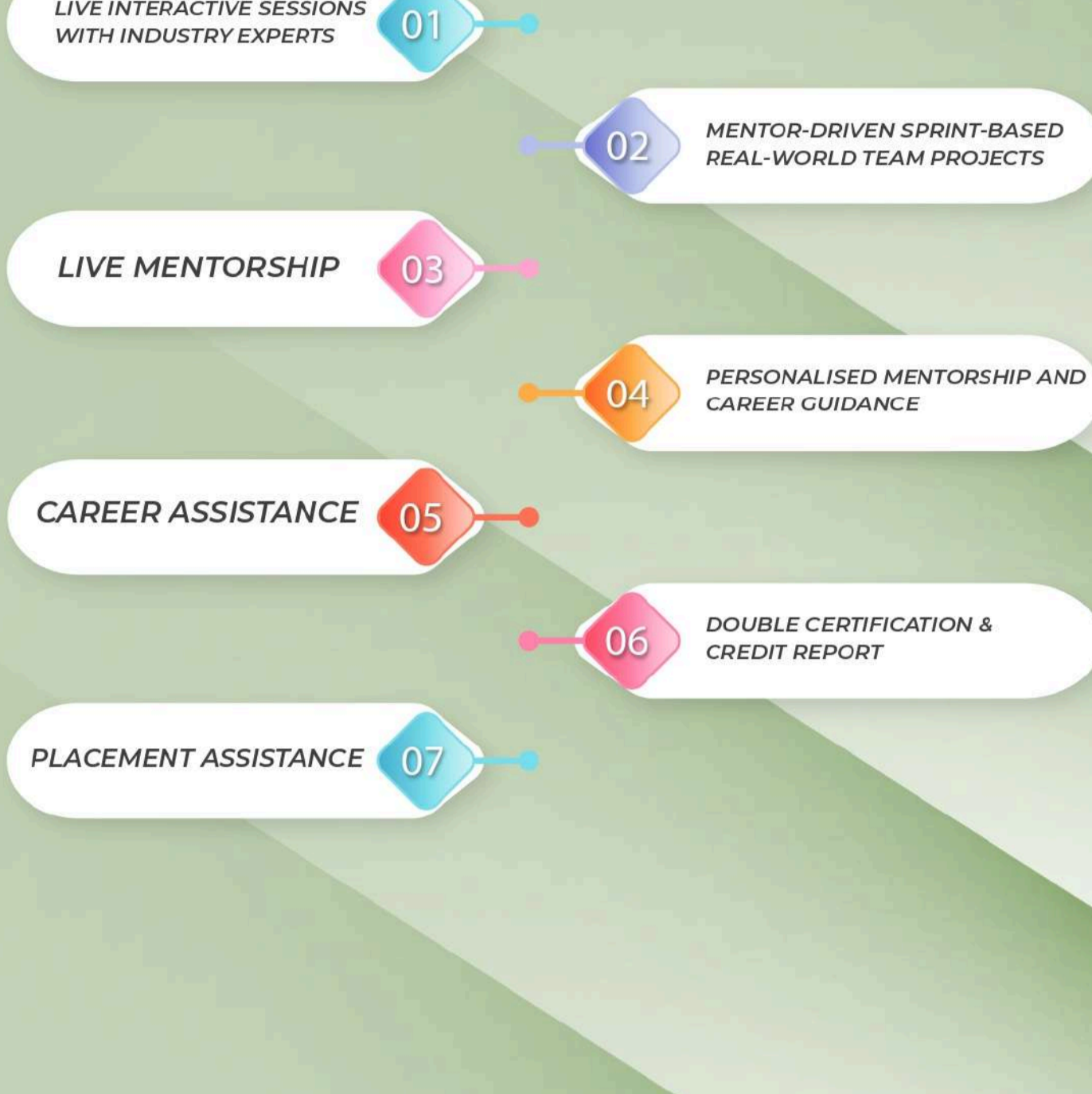


## WE OFFER



## PROGRAM HIGHLIGHTS

### WHY THIS PROGRAM IS YOUR BEST CHOICE



## COURSE CURRICULUM



This curriculum is designed to guide learners through essential data science topics, from Python programming and data handling to machine learning, deep learning, and project deployment. Each module builds upon the previous one to ensure a smooth progression from foundational concepts to more advanced techniques.

**Module 1: Python for Data Science**  
**Chapter 1: Python Basics**  
- Introduction to Python  
- Data types, variables, and operators  
- Control structures: conditionals ('if', 'else', 'elif') and loops ('for', 'while')  
**Chapter 2: Functions and Data Structures**  
- Defining and using functions  
- Lists, tuples, dictionaries, and sets  
- List comprehensions and lambda functions  
**Chapter 3: File Handling and Libraries**  
- Reading and writing files in Python  
- Introduction to important libraries: NumPy, Pandas  
- Using Jupyter Notebooks for data science

**Module 2: Logical Operators & Python for Data Processing**  
**Chapter 1: Logical Operators and Boolean Expressions**  
- Introduction to logical operators ('and', 'or', 'not')  
- Boolean expressions and truth tables  
- Combining conditions for decision-making  
**Chapter 2: Data Manipulation with Pandas**  
- Introduction to Pandas DataFrames  
- Importing and exporting data (CSV, Excel)  
- Data filtering, sorting, and grouping  
**Chapter 3: Data Cleaning and Preprocessing**  
- Handling missing data  
- Dealing with duplicates and outliers  
- Feature scaling (normalisation, standardisation)

**Module 3: Mathematics & Statistics for Data Science**  
**Chapter 1: Linear Algebra Basics**  
- Vectors and matrices  
- Matrix operations (addition, multiplication, transpose)  
- Eigenvalues and eigenvectors (introduction)  
**Chapter 2: Descriptive Statistics**  
- Mean, median, mode  
- Variance, standard deviation  
- Understanding distributions: normal, skewed, kurtosis  
**Chapter 3: Probability Theory and Hypothesis Testing**  
- Probability rules and Bayes' theorem  
- Introduction to hypothesis testing (T-tests, p-values)  
- Confidence intervals and statistical significance

**Module 4: Data Visualisation**  
**Chapter 1: Introduction to Data Visualization**  
- Importance of data visualisation  
- Types of charts (bar charts, line charts, scatter plots, histograms)  
- Introduction to Matplotlib and Seaborn  
**Chapter 2: Plotting with Matplotlib**  
- Creating basic plots: line charts, bar charts, pie charts  
- Customizing plots (labels, titles, legends)  
- Creating subplots and handling figure sizes  
**Chapter 3: Advanced Visualization with Seaborn**  
- Plotting complex relationships: heatmaps, pair plots, box plots  
- Visualising categorical and continuous variables  
- Customizing Seaborn aesthetics

**Module 5: Introduction to Machine Learning (ML)**  
**Chapter 1: Supervised Learning Basics**  
- Overview of supervised learning  
- Regression vs. classification tasks  
- Introduction to Scikit-learn: data splitting, model training  
**Chapter 2: Linear Regression and Logistic Regression**  
- Implementing Linear Regression  
- Understanding and applying Logistic Regression  
- Evaluation metrics: accuracy, precision, recall, F1 score  
**Chapter 3: Decision Trees and Random Forests**  
- Introduction to Decision Trees  
- Understanding Random Forests  
- Overfitting, underfitting, and cross-validation

**Module 7: Deep Learning Basics**  
**Chapter 1: Introduction to Neural Networks**  
- Overview of deep learning and neural networks  
- Basic architecture of a neural network: neurons, layers, activation functions  
- Forward propagation and backpropagation  
**Chapter 2: Building Neural Networks with TensorFlow/Keras**  
- Setting up TensorFlow and Keras  
- Building a simple feedforward neural network  
- Training, validation, and testing with Keras  
**Chapter 3: Deep Learning for Classification**  
- Image classification using Convolutional Neural Networks (CNNs)  
- Introduction to Recurrent Neural Networks (RNNs) for sequential data  
- Overfitting prevention using dropout and regularisation

**Module 6: Advanced Machine Learning Techniques**  
**Chapter 1: XGBoost Algorithm**  
- Introduction to XGBoost  
- How XGBoost works: boosting vs. bagging  
- Implementing XGBoost with Python  
**Chapter 2: Model Tuning and Hyperparameter Optimization**  
- Understanding hyperparameters in models  
- Grid search and random search for hyperparameter tuning  
- Evaluation using cross-validation  
**Chapter 3: Model Performance Evaluation \***  
- ROC-AUC curves, confusion matrix  
- Mean Absolute Error (MAE), Root Mean Squared Error (RMSE)  
- Choosing the right evaluation metric

**Module 8: Data Science Project & Deployment**  
**Chapter 1: End-to-End Data Science Project**  
- Defining the project: objectives, datasets, and approach  
- Data preprocessing and feature engineering  
- Model selection and evaluation  
**Chapter 2: Model Deployment and APIs**  
- Basics of deploying models using Flask or FastAPI  
- Turning machine learning models into RESTful APIs  
- Introduction to Docker for model containerization  
**Chapter 3: Final Project Presentation and Feedback**  
- Presenting the data science project  
- Code review and peer feedback  
- Best practices for continuous deployment and monitoring

2 Weeks Major Projects

## Jobs You Can Apply

- ◆ Data Scientist , ₹8-30 LPA
- ◆ Machine Learning Engineer , ₹10-35 LPA
- ◆ Data Analyst , ₹5-15 LPA
- ◆ Business Analyst (Data Focused) , ₹6-18 LPA
- ◆ Data Engineer, ₹10-30 LPA
- ◆ AI/ML Researcher , ₹15-40 LPA.

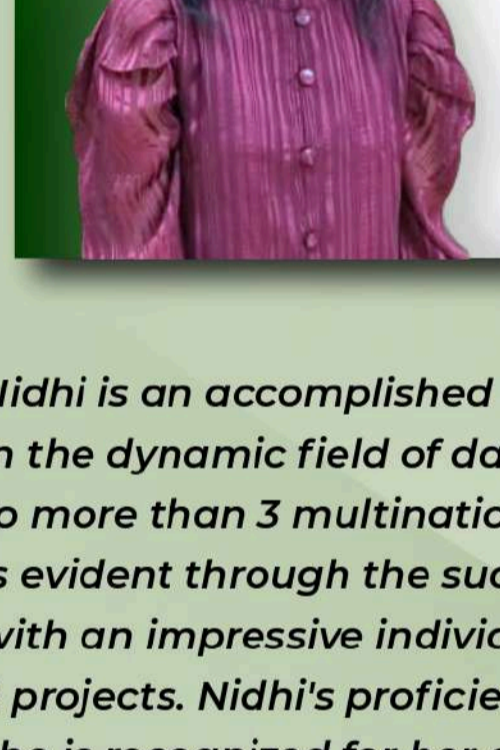
## Projects

- ◆ Customer Churn Prediction
- ◆ Sales Forecasting / Time Series Prediction
- ◆ Credit Risk / Loan Default Prediction

## TOOL BOX



## MEET YOUR MENTOR



**Nidhi**  
Company : MNC  
Experience : 5+ years

Nidhi is an accomplished mentor with over 5 years of expertise in the dynamic field of data science, having contributed her skills to more than 3 multinational corporations. Her rich experience is evident through the successful completion of 20+ projects, with an impressive individual accomplishment of leading over 2 projects. Nidhi's proficiency extends beyond technical prowess, she is recognized for her exceptional leadership qualities. Her adept guidance and strategic acumen have not only shaped successful project outcomes but have also established her as a respected figure in the data science community. Nidhi stands out as a mentor who combines technical excellence with strong leadership, making her an invaluable asset in the realm of data science.

## 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.

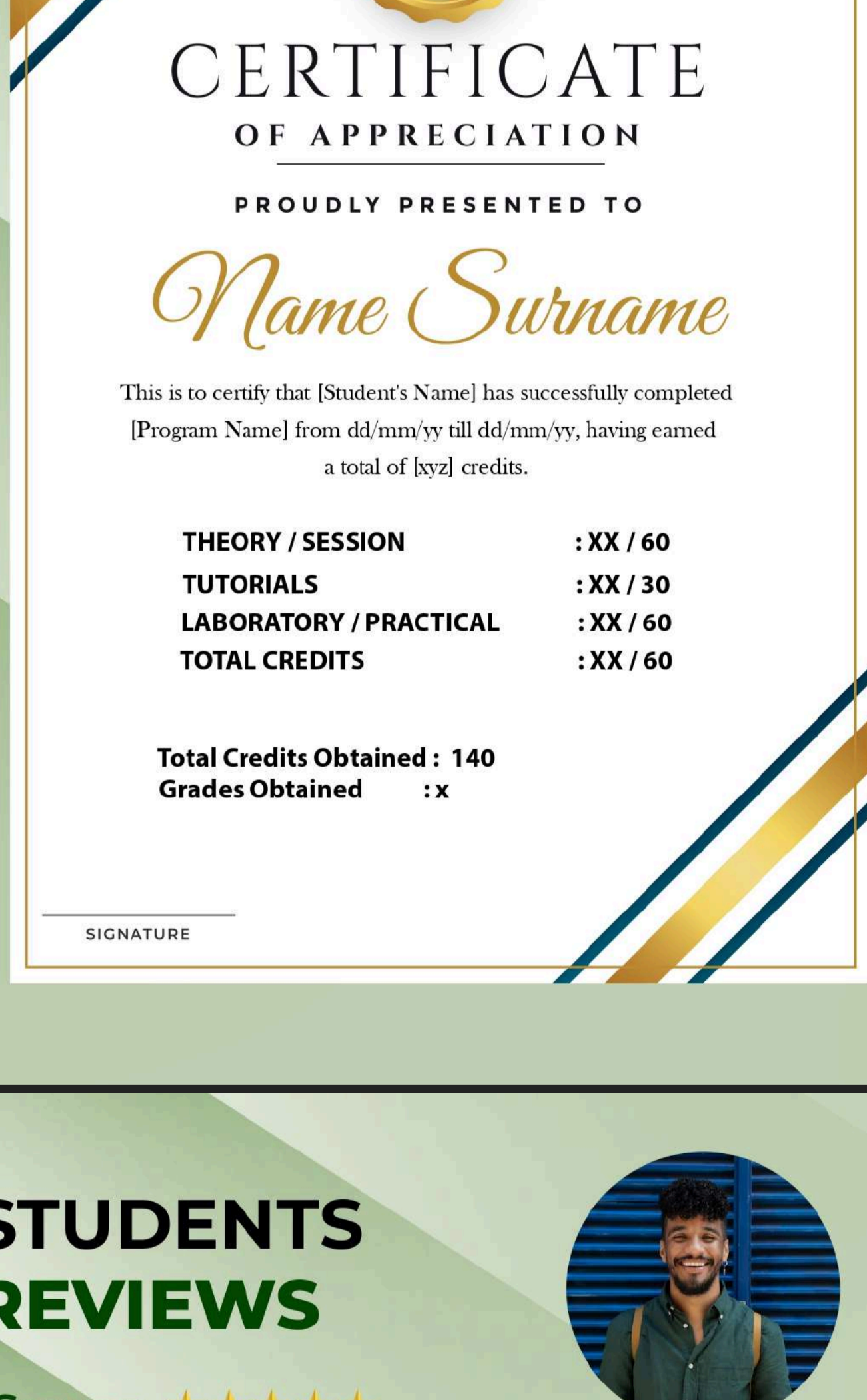
**Career Opportunities**  
Career opportunities are essential as they provide pathways for personal and professional growth, financial stability, and the fulfillment of individual potential and aspirations.

**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



## INTERNSHIP COMPLETION CERTIFICATE



## STUDENTS REVIEWS

- Sravan** ★★★★★  
Very good Internship program. My mentors are teaching me more technical stuff. I also recommend my friends to do this internship.
- Vasavi** ★★★★★  
This is the best internship provider with major projects with best experienced mentors.
- Sarvani** ★★★★★  
This is the best internship and training provider company with 100% job assistance
- Raghu Roy** ★★★★★  
This is the best internship provider with major projects with best experienced mentors.
- 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."

- Kashish** ★★★★★  
Very good Internship program. My mentors are teaching me more technical stuff. I also recommend my friends to do this internship.
- Dinakaran** ★★★★★  
Thank you so much learnflu for giving this wonderful opportunity and developed my knowledge.
- 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 Aleem have given very insightful information about this Internship and Training Programme and I am very much excited regarding the program
- Priya** ★★★★★  
This is a very good learning platform which offers students training and internship program

## OUR ALUMNI WORKS AT



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