

Data Analyst

Dynamic data analyst with 6 months of experience in machine learning and data visualization. Proficient in Python and deep learning, with a strong track record of building predictive models and data-driven strategies. Skilled in generative AI and statistical analysis to enhance user engagement and drive business efficiency.

Internships

Intern at Learner's Galaxy, Dehradun

July 2024 – September 2024

Ed-buddy: An educational platform utilizing generative AI for enhanced learning

- Contributed to the development of a generative AI educational platform enabling students to ask subject-related questions
- Utilized Next.js, Fast API, MongoDB, and Chroma DB, leveraging AutoGen for LLM-powered responses

Intern at Infosys, Remote

November 2024 – January 2025

Traffic Sign Board Prediction:

- Implemented a CNN and YOLO based model for real-time traffic sign prediction
- Collaborated with Django for backend processes while utilizing HTML and CSS for frontend development

Projects

Bank Marketing Campaign Prediction

Enhanced a machine learning model to predict customer responses to a bank's marketing campaign, increasing prediction accuracy by 11%. Conducted in-depth EDA, engineered key behavioural features, and implemented Random Forest and Logistic Regression classifiers. Optimized performance via hyperparameter tuning, achieving 86% accuracy and a 0.91 ROC-AUC score.

Sales and Profitability Analysis for an OTA (Online Travel Agency)

Analysed 20K+ booking records to uncover pricing inefficiencies and customer behaviour patterns, identifying a 15% revenue loss from poorly timed discounts. Utilized Python (Pandas, Matplotlib, Seaborn) for data cleaning and visualization. Proposed data-backed pricing strategies that boosted projected sales by 12%.

Time Series Analysis of AI Companies' Stock Prices

Leveraged Yahoo Finance API to scrutinize stock behaviour of seven leading AI companies, implementing ARIMA and SARIMA models to uncover volatility patterns and predict stock performance with 92% accuracy.

Python for Finance: Beta and Capital Asset Pricing Model (CAPM)

Built a Python-based financial analytics tool to calculate Beta values and expected returns using CAPM, analysing historical stock data of 50+ companies via Yahoo Finance API. Automated risk metrics calculation (risk-free rate, market return, asset risk), improving portfolio risk analysis accuracy by 20% and enhancing investment decision workflows.

Stock Valuation with Dividend Discount Model (DDM)

Developed a Python-driven stock valuation model using the Dividend Discount Model (DDM) to estimate intrinsic values of 30+ dividend-paying companies. Automated data input for dividend growth rates and

required return calculations, achieving valuation accuracy within 8% of real-time market prices.
Strengthened proficiency in equity valuation and financial forecasting.

Education

- **MBA, Aug 2023 – July 2025**
Graphic Era University, Dehradun
- **B.Sc. (PCM), Aug 2019 – July 2022**
Sri Dev Suman University, Kotdwara

Areas of Expertise

Python (Programming Language)	Data Visualization	Django Web Framework
SQL Databases	Machine Learning	Deep Learning
Tableau& Power BI	Time Series Analysis	Business Statistics
Algorithms	Generative AI	Large Language Models
Cloud Computing (AWS & Azure)		

Affiliations

- Business Statistics – IIT Kharagpur (NPTEL)
- Machine Learning – Stanford University (Online)
- Deep Learning – IIT Madras (NPTEL)