

Aashirvad K Varghese

Data Scientist

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PROFESSIONAL SUMMARY

Aspiring Data Scientist with a B.Com in Data Science and hands-on experience in machine learning, financial analytics, and predictive modelling. Adept at building end-to-end ML pipelines — from data preprocessing and EDA to model deployment using Flask and Streamlit. Passionate about applying data-driven approaches to solve real-world problems in risk assessment, fraud detection, and market trend analysis.

WORK EXPERIENCE

Data Science Trainee | Arcite School of Data Science

- Undergoing structured training in Machine Learning, Data Analysis, and Predictive Modelling with a focus on applied, industry-relevant use cases.
- Performed end-to-end data preprocessing, feature engineering, and exploratory data analysis (EDA) on real-world datasets.
- Built, trained, and evaluated both classification and regression models using scikit-learn; assessed performance using metrics such as precision, recall, F1-score, and ROC-AUC.

Banking Intern | Co-operative Bank Chathanoor

2024

- Assisted with customer account operations, KYC documentation, and compliance-related tasks.
- Observed and supported financial workflows including loan processing, general ledger reconciliation, and transaction monitoring.
- Developed practical understanding of banking systems, which now informs my domain expertise in financial ML applications (fraud detection, credit risk).

PROJECTS

Fraud Detection System

[GitHub](#) →

- This project focuses on identifying fraudulent financial transactions using machine learning techniques.
- I performed data preprocessing, handled imbalanced data, and trained classification models like Logistic Regression and Random Forest.
- The model helps in detecting suspicious transactions based on patterns and improves security.
- Evaluation was done using metrics like precision and recall since fraud detection requires minimizing false negatives.

Emergency Triage Prediction System

[GitHub](#) →

- This project predicts the severity level of patients based on symptoms using machine learning.
- I built a classification model to categorize patients into different priority levels for faster medical response.
- Data preprocessing and feature selection were used to improve model accuracy.
- The system can help hospitals prioritize critical patients and improve decision-making in emergencies.

Salary Prediction System

[GitHub](#) →

- This project predicts salary based on factors like experience, education, and job role using regression models.
- I used algorithms like Linear Regression and Random Forest to build the model.
- Performed data cleaning, feature encoding, and model evaluation to improve prediction accuracy.
- This project demonstrates how data can be used for real-world decision-making like salary estimation.

EDUCATION

Bachelor of Commerce — Accounts & Data Science

Jan 2022 – Jan 2025

St. John's College, Anchal, Kerala, India

CERTIFICATIONS

- Generative AI & Prompt Engineering — One Million Prompters
- Data Analytics Virtual Internship — Deloitte, Tata, Quantum (via Forage)
- Project Management Foundations — LinkedIn Learning

TECHNICAL SKILLS

Languages & Libraries	Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn)
Machine Learning	Classification, Regression, Gradient Boosting, Decision Trees, Random Forest
Data Skills	Data Cleaning, EDA, Feature Engineering, Data Validation, SMOTE
Deployment	Flask, Streamlit
Tools & Platforms	Jupyter Notebook, VS Code, GitHub

PROFESSIONAL SKILLS

Analytical Thinking • Attention to Detail • Problem Solving • Structured Documentation • Team Collaboration