AMRITHA DEVANGANA KADHRIRAJ

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Alum - University of Leeds | Data Analyst | Bengaluru

EXECUTIVE SUMMARY

M.Sc Data Science & Analytics graduate from the University of Leeds with hands-on experience in reporting automation, statistical analysis, and dashboard development. Skilled in Python, R, SQL, and machine learning. Strong ability to convert complex datasets into actionable insights through MIS reporting, forecasting, and data quality improvements. Targeting Data Analyst, Data Science, and Machine Learning Engineering roles.

PROFESSIONAL EXPERIENCE

Genpact India — Associate, Data Analytics & Reporting   Bengaluru | Nov 2023 – Aug 2024

- Reporting Automation & Data Extraction: Automated data extraction workflows using Control-M and Linux (PuTTY), improving reliability and reducing manual effort.
- MIS Reporting & Analytics: Delivered daily, weekly, and monthly MIS reports with high accuracy and created dynamic templates that accelerated reporting efficiency.
- Data Visualisation & Dashboard Development: Designed interactive dashboards using advanced Excel and Power BI to support KPI tracking, trend identification, and insights.
- Client Communication & Stakeholder Management: Served as primary client contact, led alignment calls, and ensured timely query resolution within SLA requirements.
- IRI Retail & Analytics Projects: Streamlined analytics delivery timelines and collaborated with data engineering teams to maintain strong data quality and consistency.
- Data Quality & Process Optimisation: Identified data inconsistencies and implemented process improvements that strengthened data pipelines and reduced reporting errors.

ACADEMIC PROJECTS

M.Sc Dissertation — Financial Forecasting Using Random Walk Models   University of Leeds | 2025

Title: Using Random Walks in Exchange Rate Modelling
Tools & Techniques: R Studio, Statistical Modeling, Time Series Analysis, Stochastic Processes, Random Walk Hypothesis

- Conducted comprehensive study on **modeling exchange rate movements using discrete random walk processes** with log-transformed currency data scaled into stationary increment sequences.
- Developed simulation-based forecasting models comparing Random Walk approaches with ARIMA and GARCH using real forex datasets.
- Performed statistical validation and compared performance metrics, demonstrating competitive short-term forecasting accuracy.
- Delivered detailed **technical report with visualization of model outputs**, statistical interpretations, and recommendations for practical applications.
- Presented findings in oral defense with analysis of stochastic processes and financial theory.

EDUCATION

M.Sc Data Science & Analytics | University of Leeds, United Kingdom   Sep 2024 – Sep 2025

- Coursework: Machine Learning, Statistical Modeling, Time Series Analysis, Data Engineering.
- Capstone Dissertation: "Using Random Walks in Exchange Rate Modelling".

B.Tech Information Technology | Sona College of Technology, India   Aug 2019 – May 2023

- Relevant Coursework: Python, Data Structures, Algorithms, Database Management Systems.

TECHNICAL SKILLS

- **Data Science:** Data cleaning, Preprocessing, Feature engineering, EDA
- **Machine Learning:** Regression, Classification, Clustering, Ensemble Methods, Time Series Forecasting, Statistical Modeling.
- **Programming Languages:** Python (NumPy, Pandas, TensorFlow, Scikit-learn), R, SQL.
- **Data Visualisation:** Dashboards and visual reports using Tableau, Power BI, Matplotlib, and Seaborn.
- **Hypothesis Testing:** Designing A/B tests, defining hypotheses, and applying t-test, chi-square, and p-value based decisions.

CERTIFICATIONS

- Programming for Data Science – Coursera
- Exploratory Data Analysis (EDA) - Coursera
- Statistical Methods for Data Analysis - Coursera
- Introduction to Programming Using Python - Coursera

INVOLVEMENTS

- Developed a YOLO-based deep learning model to identify and classify erythema-related skin diseases, project was published in Springer (PCCDA 2023) and presented at an international conference.
- Led activities in the English Club and IQ & EQ Club by organizing debates, quizzes and workshops; strengthened communication, team coordination, and problem-solving.