

Jeganathan Duraisamy

Data Analyst | AI & Machine Learning Engineer

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SUMMARY

"Having graduated with a Master's in Data Science from the University of Surrey. I have hands-on experience in data analytics and applied AI for forecasting, risk identification, and finance performance analysis. I am seeking Data Analyst and data-focused roles in business and financial environments. **I have the right to work in the UK.**"

Skills

- **Programming & Data:** Python (Pandas, NumPy, scikit-learn), R, SQL, Git, Excel (Pivot Tables, Power Query)
- **Machine Learning:** Predictive Modelling, Regression, NLP, Statistical Analysis, Time Series Forecasting, Model Evaluation
- **Visualization & Reporting:** Power BI, Tableau, Matplotlib
- **Data Engineering :** Data Cleaning, Feature Engineering, SQL Joins, ETL, Pricing & Performance Analysis
- **Cloud & Automation:** Azure, Databricks, Python Automation, Workflow Optimisation
- **Certification:** Microsoft Certified – Power BI Data Analyst Associate

Projects

- **End-to-End Fraud Detection System for Financial Transactions :** Designed an end to end fraud detection pipeline by validating transaction data, engineering fraud specific feature engineering, and handling severe class imbalance using SMOTE and improving fraud recall from 62% to 84% while controlling false, positive rates. Developed and evaluated Logistic Regression, Random Forest, and Gradient Boosting models using ROC - AUC and confusion matrix analysis, reducing false negatives by 30% compared to the baseline model.
- **Muti Aspect Sentiment analysis using BERT & LSTM :** Built an aspect level sentiment classification system by performing text preprocessing, exploratory error analysis, and fine-tuning BERT embeddings with LSTM architectures, applying precision, recall benchmarking and threshold optimization to address class imbalance, achieving an 8% improvement in F1 score over traditional single label sentiment models while improving consistency across multiple sentiment aspects.

Work Experience

Shift Manager (Operations Analysis) | Slim Chickens | Nov 2024-Present | Guildford, United Kingdom

- Analyzed operational and financial performance by integrating EPOS transaction data with payment record using advanced Excel workflows (Power Query, PivotTables, reconciliation logic), improving reporting accuracy that reduced service time by 15% and increased peak hour sales by 10%.
- Automated daily and weekly financial reconciliation by designing structured Excel templates to validate sales, refunds, discounts, and bank deposits while flagging variances via conditional checks, reducing manual reconciliation errors and cutting finance follow up queries by 30%.

Data Analyst Intern Program | Victoria Solutions | May 2025 | London Area, United Kingdom

- Spearheaded performance focused data analysis by resolving inconsistent schemas, missing values, and duplicate records through Python and SQL based ETL workflows and DAX driven Power BI modelling, reducing data discrepancies by 20% and improving dashboard reliability for business reporting. Executed transformation by integrating Python, SQL, and Excel based QA checks into the reporting workflow, improving data accuracy.

Graduate Engineer Trainee (Data Analyst) | HCL Tech | December 2022 - June 2023 | Delhi, India

- Processed large, multi-source operational and pricing datasets by cleaning, validating, and standardizing raw inputs using Python (Pandas) and SQL to resolve missing values and schema inconsistencies, improving data reliability and reducing downstream reporting errors by 25%.
- Developed short term pricing and trend forecasts by applying **Linear Regression and time based analysis** on cleaned datasets, enabling more accurate forecasts and supporting data driven pricing decisions for business stakeholders.
- Automated end to end data preparation, extraction, and reporting by integrating SQL pipelines, Python scripts, and Excel workflows and delivering insights via Power BI and Tableau dashboards, reducing manual processing time by 30% and accelerating decision making for operations and management teams.

Education

- MSc in Data Science | **University of Surrey** | 2023-2024
- B.E in Electrical and Electronics Engineering | **Sri Ramakrishna Engineering College** | 2018 - 2022