RIDIMA TAMBDE - Data Science & Analytics Postgraduate

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PROFILE

Data analyst with experience in financial analytics, reporting automation, and risk detection. Skilled in Python, SQL, Power BI, and Excel (PivotTables, VLOOKUP, Macros), with exposure to cloud tools, data quality, and MI workflows.

WORK EXPERIENCE

July 2022 – August 2023| [Piramal Finance](#), Mumbai, India   **Software Development Engineer – 1**

- Built microservices and internal APIs using Python, FastAPI, and Kafka to automate HRMS workflows by syncing Darwinbox onboarding data to Kafka streams, reducing HR manual effort and enabling scalable employee data handling.
- Built Docker-based CI/CD pipelines in Jenkins for secure ML model deployment, reducing release time by 30% and integrating with DevOps workflows for near real-time fraud insights.
- Integrated supervised anomaly detection into onboarding APIs to trigger real-time compliance alerts, boosting fraud detection accuracy by ~20% and automating risk scoring.
- Automated masking of 50,000+ Aadhaar records using Python and SQL, enabling GDPR-compliant data pipelines across Azure/Snowflake and reducing manual effort by 90%.
- Developed APIs and ELK-based ETL pipelines for real-time API log monitoring and used Databricks with PySpark to process large datasets for improved analytics.
- Designed KPI dashboards in Power BI and Excel to track loan risk metrics and ensure reporting SLAs, while evaluating digital feature impact via A/B testing workflows.

June 2024 – Feb 2025 | National College of Ireland (NCI), Dublin, Ireland   **Research Assistant – Computer Vision**

- Executed independent research on enhancing image quality using SRGANs, achieving a 30% improvement in PSNR scores, and aligning outputs with publication requirements.
- Collaborated with faculty on publishing research and created visual dashboards for model evaluation, enabling iterative improvement and clearer performance communication.

EDUCATION

Sep 2023 – Nov 2024 |National College of Ireland (1:1)   **MSc Data Analytics**
June 2018 – May 2022 |Vidyalankar Institute of Technology   **Bachelor of Engineering (B.E) – Computer Science**

PROJECTS

April 2025 | Public Safety Anomaly Detection Pipeline using Airflow
Tech Stack: Python, Apache Airflow, PostgreSQL, Open Data API, Scikit-learn, Docker
Built a fully automated pipeline using Airflow to ingest real-time public safety incident data, detect geographic anomalies using Isolation Forest, and store both clean and anomalous records in PostgreSQL, enabling proactive monitoring and spatial analysis.

March 2025| Streaming Video Subscriptions Dashboard
Tech Stack: Power BI, SQL, DAX
Built Power BI dashboards to analyze subscription trends, customer churn, and ARPU, using SQL for data extraction and DAX for advanced KPI calculations.

December 2023| API Driven Fusion (Fáilte Ireland & Yelp) Integration for Tourism Analytics
Tech Stack: Python, MongoDB, PostgreSQL, Python Visualisation (Matplotlib, Seaborn, Plotly, Folium, Bokeh)
Extracted JSON data from Fáilte Ireland and Yelp APIs, stored it in MongoDB/PostgreSQL, and performed data cleaning and transformation. Enabled streamlined visualization and actionable insights using Python.

November 2023| Data-Driven Vehicle Theft Prevention: A Company-Based Scenario
Tech Stack: Power BI, CRM (Microsoft Dynamics 365)
Built Power BI dashboards for insights on theft patterns, using DAX queries for advanced calculations and integrating Dynamics 365 to manage customer records, supporting strategic theft prevention efforts with predictive modeling for fraud detection.

TECHNOLOGY SKILLS

- **Programming:** Python, SQL, R
- **Visualization & CRM:** Power BI, Tableau, Excel (macros, pivot tables, VLOOKUP), Dynamics 365
- **Libraries & Tools:** FastAPI, Postman, Pandas, NumPy, PyTorch
- **Cloud & Data Management:** AWS (S3, Parameter Store), Azure, Kafka, Apigee, MongoDB, PostgreSQL, Snowflake
- **ETL & Deployment:** ELK Stack, Jenkins, GitLab, Docker, Kubernetes, Airflow

ACHIEVEMENTS

Awarded Technology Townhall Award for resolving 30+ data issues at Piramal Finance, improving reliability, compliance, and system controls.

Research paper on SRGAN-enhanced diagnostic models accepted at IEEE ACDSA 2025 Conference (Turkey), showcasing innovative use of generative AI in medical imaging.