VAIBHAV RANKA

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EDUCATION

University College Dublin (U.C.D) — Dublin, Ireland
MS in Computer Science(DS & DA) — September 2022 | GPA: 3.44/4.0

Amity University — Jaipur, India
Bachelor of Technology in Computer Science — August 2019 | GPA: 7.94/10.0

TECHNICAL SKILLS

Data Analytics & BI: Power BI (Advanced DAX, Power Query, Dataflows, Gateways), Tableau, Advanced Excel (VBA, Macros, PivotTables, Array Functions), Data Modeling (Star & Snowflake Schema), ETL Workflows, Data Visualization

Programming & Databases: SQL, Python (Pandas, NumPy, Matplotlib), PostgreSQL, SQL Server, MySQL, Amazon Redshift, MongoDB, DBeaver

Cloud & Big Data: AWS (S3, Redshift, Lambda, Athena), Azure (Power BI Service), Azure Data Factory, Data Pipelines

Automation: Microsoft Power Apps (Canvas & Model-Driven), Power Automate, Dynamics 365, SharePoint (Lists, Integrations), Workflow Automation

Data Governance & Risk: Master Data Management (MDM), GRC Tools (Castellan, Risk Connect), Fraud Analytics, Regulatory Reporting (DORA, CRA, RCSA, BIA)

Other: SAP, UKRIS, Mainframe Systems, Machine Learning (Anomaly Detection), Business Continuity Planning, Regulatory Compliance.

PROFESSIONAL EXPERIENCE

MUFG Investor Services — Dublin, Ireland
Associate, Risk Data Analyst — April 2024 – Present

- Conducted Business Impact Analysis (BIA) on 18 critical business services using Castellan and Power BI, improving recovery planning efficiency by 25% and reducing recovery risk exposure by 15%
- Built and deployed 15+ advanced Power BI dashboards integrating Amazon Redshift and Azure Data Factory, improving reporting accuracy by 68% and reducing manual reporting efforts by 35%
- Optimized ETL workflows and data transformation for 100+ tables, boosting data processing efficiency by 30% and improving data refresh reliability
- Conducted trend analysis on incident and fraud management data using SQL and Python, identifying key drivers of human errors and fraudulent transactions, enhancing detection accuracy by 32%
- Analyzed RTO/RPO gaps with SQL and Excel to validate application recovery timelines, ensuring 100% coverage of critical activities for alternate site capacity planning
- Developed internal SORT Tool (GRC solution) using Power Apps, Power BI, and MDM, reducing data duplication by 40%, increasing operational efficiency by 50%, and achieving 60% cost savings by eliminating third-party GRC tools
- Automated workflows with Power Automate including role-based access control, unique ID generation, and approval processes, saving 20+ hours monthly and reducing manual effort by 45%
- Developed Data Quality Dashboard in Power BI connected to Amazon Redshift for real-time tracking of exceptions and null fields, reducing data errors by 30%
- Implemented automated exception detection in Master Data Management pipelines using SQL, enhancing compliance reporting accuracy by 40% and streamlining data validation processes

Wipro Limited Pune, India
Incident Data Analyst August 2019 – July 2022

- Extracted, transformed, and analyzed 80,000+ records from SAP, UKRIS, and Mainframe systems, advancing data accuracy by 35%
- Developed reporting solutions in Power BI and Excel that reduced SLA breaches by 20% and strengthened client performance monitoring capabilities
- Designed and implemented access control workflows, cutting data inaccuracies by 25% and shortening approval turnaround times by 40%, improving overall compliance posture
- Built ServiceNow access management workflows that resolved 93% of queries within SLA and reduced onboarding delays by 30%
- Conducted security audits ensuring 98% compliance with governance standards; recognized with "CRS High Flyer" Award for exceptional performance
- Validated and tested data pipelines achieving 90% report accuracy, improving regulatory compliance and reducing potential audit penalties

ACADEMIC PROJECT

Fake News Detection (End-to-End Machine Learning Project)

- Performed preprocessing (tokenization, stop-word removal, stemming) on 500,000+ records, merging datasets from GitHub, Kaggle, and proprietary sources to improve model reliability.
- Deployed the final model on AWS using EC2, S3, and Lambda for automated inference and scalability.
- Achieved 92% accuracy in fake news classification using Deep Learning (CNN, LSTM) and ML models (Logistic Regression, SVM).
- Evaluated performance using precision, recall, F1-score, and ROC-AUC, and visualized results through an interactive Power BI dashboard.

Techniques Used: TF-IDF Vectorizer, CNN, LSTM, SVM, KNN, Logistic Regression, AWS (EC2, S3, Lambda)