VAIBHAV RANA

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Professional Summary

Data & Business Analyst with an MSc in Business Analytics and 5 years of operational experience. Skilled in SQL, Python, and Power BI to deliver actionable insights, process optimisation, and automation. Demonstrated ability to translate data into business impact — achieved 25% downtime reduction and 15% efficiency gains through analytics-driven decisions. Adept at stakeholder collaboration, KPI development, and presenting clear insights that support data-informed strategies.

Key Skills

- Data & BI Tools: SQL (joins, CTEs), Power BI (DAX, Power Query), Excel (VBA, Power Pivot), Tableau, Data Validation & Profiling
- Programming & Analysis: Python (pandas, NumPy, matplotlib), ETL, Data Wrangling, Forecasting, KPI Design, Root Cause Analysis
- Business Analysis & Governance: Requirements Gathering & Documentation (BRD/FSD), Process Mapping, Gap Analysis, Stakeholder Engagement, Agile Delivery, UAT Testing, Data Governance & GDPR Compliance, Audit Readiness
- Cloud & Automation: AWS, Azure, Docker, Kubernetes (for automation & analytics deployment), IoT Integrations
- Technical Tools: HTML, CSS, Django, JavaScript, Linux (systemd, networking)
- Soft Skills: Communication, Collaboration, Problem-Solving, Change Management, Cross-Functional Coordination

Professional Experience

Electrical Engineer (Data Automation & Reliability) — GAWAR Construction Ltd, Gurgaon, India

Apr 2017 – Aug 2024

- Conducted root-cause and downtime analysis across 12 construction sites; identified failure trends that cut operational downtime by 25%.
- Designed predictive-maintenance dashboards using Python & Excel, enabling management to schedule maintenance proactively.
- Integrated IoT sensors and automated logs to achieve 99.6 % equipment uptime and full audit-readiness.
- Partnered with project managers and procurement teams to translate technical findings into cost-saving actions, improving budget efficiency by 18 %.
- Built KPI reporting templates for energy consumption and safety compliance, standardising reporting across departments.

Operations & Data Lead (School Administration) — Shree Sai Public School, Haryana, India

Apr 2016 – Apr 2017

- Analysed academic and operational data for 1,200 students to improve resource allocation and reduce utility costs by 20 %.
- Designed Excel-based scheduling and performance-tracking dashboards used by academic coordinators and management.
- Introduced process-mapping workflows that shortened administrative turnaround time by 30 %.
- Collaborated with senior staff to define reporting KPIs and establish data-governance standards for attendance and grading systems.

Academic Projects

AI4EU – Smart AI Orchestrator for EIR Grid (EU-funded)

- Analyzed live EIR Grid datasets to identify orchestration bottlenecks and performance trends across 25 nodes.
- Led requirements-gathering sessions with stakeholders to define success metrics for reliability, latency, and throughput.
- Streamlined data-flow design using Kafka + Kubernetes, improving orchestration efficiency and reducing runtime by 30 %.
- Built Power BI dashboards and KPI summaries to present system performance and ROI to academic supervisors and EU project sponsors.
- Produced a governance-ready documentation framework enabling reproducible deployments and clearer audit trails.

Falcon 9 Launch Classification Model

- Applied logistic regression in Python on historical launch data to predict success probabilities.
- Delivered validated insights through feature analysis using pandas and scikit-learn.

Education

MSc Business Analytics – Maynooth University, Ireland | Sep 2024 – Sep 2025
Key Modules: Data Warehousing (82%), Business Process Optimisation (78%), Strategic Management (75%)

B.Tech Electrical & Electronics Engineering – Manipal Institute of Technology, India | Jun 2011 – Jun 2015

Certifications

- IBM Data Science & Analytics Suite (Machine Learning Honors, Tableau, Data Analytics)
- RapidMiner Professional
- Macquarie Excel
- SAP Business Analyst (Ongoing)

Volunteering & Leadership

Organiser – Engifest, Software Society of Engineers | Jun 2012 – Sep 2013

Hackerearth Campus Ambassador | Jun 2013 – Oct 2014