

Vaibhav Rana

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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 across retail, insurance, and software domains.

SKILLS SUMMARY

- Data & BI Tools:** SQL (joins, CTEs), Power BI (DAX, Power Query), Excel (VBA, Power Pivot), Tableau
- Programming & Analysis:** Python (pandas, NumPy, matplotlib), ETL, Data Wrangling, Forecasting, **KPI Design**
- Business Analysis:** Requirements Gathering, Process Mapping, Stakeholder Engagement, Agile Delivery
- Cloud & Automation:** AWS, Azure, Docker, Kubernetes (for **automation & analytics deployment**), IoT Integrations
- Other Technical Skills:** HTML, CSS, Django, JavaScript, Linux (systemd, networking)
- Soft Skills:** Communication, Collaboration, Problem-Solving

WORK EXPERIENCE

Barista (Data & Operations Focus) -- Costa Coffee, Lucan, Ireland

Oct 2024 - Present

- Developed a sales and workflow tracker using Excel and Power BI, increasing transaction efficiency by 15%.
- Collaborated with shift managers to analyse footfall and staffing data, optimising schedules for improved service.
- Implemented daily KPI dashboards to visualise productivity and throughput, supporting management decisions.
- Set up a custom model to forecast stock ordering reducing wastage by 10% within one month.

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

April 2017 - Aug 2024

- Designed low-voltage system automation and predictive maintenance analytics using Python, reducing downtime by 25%.
- Integrated IoT sensors for equipment monitoring, achieving 99.6% system uptime.
- Documented data-driven maintenance schedules improving asset life-cycle efficiency.

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

April 2016 - April 2017

- Automated academic and resource scheduling using Excel macros, reducing utility costs by 20%.
- Designed KPI dashboards and digital attendance tracking systems, standardising reporting for 1,200 students.
- Coordinated cross-functional teams to analyse operational data and streamline workflows.

ACADEMIC PROJECTS

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

- Designed and deployed a multi-node smart orchestrator using Kafka, Kubernetes, and gRPC to process live energy data from the EIR Grid API.
- Implemented a smart ingestion layer with modular architecture for scalability and fault tolerance across 25+ orchestrator nodes.
- Integrated a real-time dashboard for monitoring asset data, crash detection, and orchestration health, improving observability and operational response time.
- Standardized the orchestration pipeline to support both sequential and parallel data flows, reducing execution time and improving task throughput.
- Delivered full deployment capability on Kubernetes with Helm charts, enabling reproducible and automated setup.

Falcon 9 Launch Classification Model

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

EDUCATION

- **MSc Business Analytics** – Maynooth University, Ireland |
Sep 2024 - Sep 2025
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 AND LEADERSHIP

- Organiser in Engifest, Software Society of Engineers Jun 2012 - Sep 2013
- Hackerearth Campus Ambassador Jun 2013 - Oct 2014