PRATIKRAJ MUGADE

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SKILLS

Programming & Query Languages: Python (Pandas, NumPy, Scikit-learn, GeoPandas), SQL, R.
Data Visualisation & BI Tools: Power BI, Tableau, Plotly, Microsoft Excel, Power Query.
Data Engineering: Snowflake, dbt, Airflow, ETL Pipelines, Data Modelling, Star Schema, Data Warehousing.
Cloud & Development Tools: AWS (AWS S3, Amazon EC2), Git, GitHub, Jupyter Notebook, Streamlit, Docker, Flask APIs, Google Colab.
Analytics: Data Analysis, Exploratory Data Analysis (EDA), Statistical Analysis, Data Cleaning, Data Validation, Report Development, Automated Reporting, KPI Reporting, Dashboard Development, Data Visualisation.

EXPERIENCE

Research Assistant - Pollinatework Sensibee™ Project | Kingston University   **(contract) Mar 2025 – Aug 2025**
Role- *Data Analyst*
- Analysed **drone imagery and IoT data** to deliver **operational performance reports** supporting deployment evaluation and project delivery
- Cleaned and standardised **10K+ records**, improving data accuracy, reducing rework, and strengthening executive reporting and decision-making
- Automated false-positive reporting, **reducing manual review by 20%**, accelerating reporting cycles, and contributing to **measurable business growth across European deployments**, while mitigating **fraud** risks.

Data Science Intern – Healthcare & Cybersecurity Analytics | Netsoft Technologies, India   **May 2023 – Dec 2023**
- Developed **Streamlit dashboards** tracking healthcare diagnostics and security metrics, **reducing reporting turnaround time by 40%** for internal and client-facing teams, fostering effective communication and speaking opportunities.
- Built clustering and binary classification models **(92% accuracy)** to support anomaly grouping and risk scoring, improving prioritisation of high-risk cases.
- Identified inefficiencies in data preparation and reporting workflows, enabling **faster insight delivery** and contributing to improved client satisfaction and repeat project engagement.

PROJECTS

Customer Analytics Data Pipeline – Snowflake, dbt, Airflow, Python   **Dec 2025**
- Designed ETL pipelines and analytics-ready data models for revenue, customer LTV, and product performance reporting
- Implemented data quality and anomaly checks, improving accuracy and reliability of business KPIs

Power BI Dashboard – Environment Agency Permitting Analysis   **July 2025**
- Developed interactive Power BI dashboards analysing permit trends, regional distribution, and processing timelines.
- Implemented KPI tracking and automated refresh, reducing manual reporting and improving policy monitoring efficiency.

Crime Data Analysis – Geo-Spatial Intelligence Dashboard   **Nov 2024**
- Performed EDA on UK crime datasets using Python to identify spatial hotspots and anomaly patterns.
- Built interactive dashboards in Tableau and Plotly to support data-driven public safety decision-making.

EDUCATION

Masters (Msc) Data Science, Kingston University **(Distinction)**   **Graduated : 2025**
Bachelors - Major in Mechanical Engineering & Minor in Computer Science Engineering   **Graduated: 2023**
Shivaji University, India **(Distinction)**

ACHIEVEMENTS

- **Best MSc Project Award (Joint Winner), Kingston University, 2025** — recognised for outstanding deep learning research and analytics dashboard reporting
- **Co-author, peer-reviewed publication — BMC Proceedings, 2025** — BeSafeBeeHoney: Exploring Beekeeping Innovations and Science (DOI: 10.1186/s12919-025-00347-z)
- **Certifications: AWS Certified Cloud Practitioner;** DeepLearning.AI **CNN** Certification; **Tableau** and **Power BI**
- **BAJA SAE India — All-India Rank 4** (M-BAJA) and **Rank 16** (E-BAJA) — led engineering design and performance optimisation in national competition with 200+ teams.