Atul Rane

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EXPERIENCE

DEAKIN UNIVERSITY | REPORTING ANALYST
August 2023 - August 2025 | Burwood

- Assisted in coordinating and leading campus tours, providing prospective students with comprehensive information about academic programs and campus life, showcasing strong **organizational skills** and **public speaking**.
- Systematically gathered **qualitative and quantitative data** (e.g., student inquiries, event attendance, feedback surveys) to identify trends in student interests and concerns.
- **Synthesized complex information** into clear, actionable **summary reports** for the admissions team, directly informing the content and timing of recruitment events.
- Applied **analytical findings** to personalize campus tours and presentations, strategically highlighting features that resonated most with prospective student demographics.

GENIOBITS PVT. LTD. | DATA ANALYST
February 2022 - March 2022 | Pune

- **Analyzed** client issues using **SQL/PLSQL**, identified root causes, and delivered data-driven solutions within **SLAs**.
- **Developed and optimized interfaces** with third-party applications, improving system **performance**, **integration**, and reliability.
- Designed and maintained interactive **dashboards**, **reports**, and **analytics** using **Power BI** and **Excel** to ensure **data integrity**, support **audits**, and address evolving **business needs**.
- Supported **data management** and **database systems**, leveraging **JavaScript** to enhance **data visualization** and website **interactivity**.

EDUCATION

DEAKIN UNIVERSITY | MASTER OF DATA SCIENCE
2023-2025 | Cum. GPA: 3.9/4 | Melbourne, Australia

PUNE UNIVERSITY | BE COMPUTER SCIENCE
2019-2023 | Cum. GPA: 8.6 / 10.0 | Pune, India

PROJECTS

AQI DATA WAREHOUSE & VISUALIZATION | END-TO-END DATA ENGINEERING ON SNOWFLAKE

- Built an **end-to-end data warehousing pipeline entirely within Snowflake Cloud** for India's AQI data sourced from the **Government of India's Open Data API** managed by the **CPCB**.
- Designed a multi-layered **Snowflake architecture** (**Stage, Clean, Consumption, Publish**) using **Dynamic Tables**, **Snowpark Python UDFs**, and **Tasks** for automated ingestion, transformation, and aggregation.
- Modeled a **star-schema** with **Fact** and **Dimension tables** to enable time-series and spatial AQI analysis across **State, City, and Station levels**.
- Developed interactive **Streamlit dashboards hosted natively on Snowflake**, visualizing key pollutants (**PM2.5, PM10, NO2, SO2, CO, NH3, O3**) with dynamic filtering, geo-spatial insights, and near real-time data refreshes.

BRITISH AIRWAYS REVIEWS DASHBOARD | DATA VISUALIZATION PROJECT

- Designed an interactive **Tableau dashboard** summarizing **6,000+ global customer reviews** by KPIs such as cabin staff, entertainment, food, and seat comfort.
- Developed dynamic filters (seat type, traveller type, continent, aircraft) enabling stakeholders to **drill down into service performance**.
- Visualized insights with **trend analysis, geographical heatmaps, and aircraft-level comparisons**, enhancing decision-making for service improvements.
- Delivered a clean, user-friendly dashboard optimized for **business storytelling and actionable insights**.

PROJECT ECHO | API DEVELOPMENT & TEAM LEADER

- Designed and deployed a secure **2FA authentication system** using **FastAPI**, **Twilio REST API**, **UUID**, and **MongoDB**, implementing OTP generation, SMS delivery, and validation with a **5-minute expiry policy**.
- Integrated the complete 2FA flow into the **frontend application**, enabling seamless routing, state management, and improved user experience with multi-factor authentication.

- Diagnosed and resolved critical **Docker environment issues**, ensuring cross-platform compatibility and stable containerized deployments.
- Spearheaded team collaboration through **GitHub**, **Planner**, and **Teams**, while leading onboarding by creating a Git tutorial, updating documentation, and preparing API learning resources.

NEWS-O-MANIA | Team Project
Team Lead | Role: Machine Learning, Backend

- Developed a personalized **news recommendation system** using **Flask**, **MongoDB**, and **React**, incorporating **content-based filtering** with **NLP techniques** to deliver tailored article recommendations.
- Integrated **real-time news fetching** and **recommendation functionality**, enhancing **user engagement** with up-to-date content.
- Demonstrated expertise in **Python programming**, **web development**, **database management**, and **API design** throughout the project.

COVID19 DATA ANALYSIS USING PYTHON | Data Analysis Project

- Preprocessed and cleaned **COVID-19 datasets** using **Pandas**, **NumPy**, and **data wrangling** techniques, including **data cleaning**, **aggregation**, and **feature engineering**.
- Merged COVID-19 data with the World Happiness Report dataset, performing **SQL queries** and **comparative analysis** to identify correlations and derive insights for **data-driven decision-making**.
- Created insightful **visualizations** with **Seaborn**, **Matplotlib**, and **Tableau** to communicate trends, and applied **statistical methods** and **data normalization** for accurate analysis.
- Measured COVID-19 impact using key **metrics** and **machine learning models** such as **regression analysis** and **predictive analytics**.

ACHIEVEMENTS

- 'News-O-Mania' News Recommendation System Using Sparse Matrix Implementation,' has obtained **copyright approval certificate** from the 'Copyright Office - Government of India'.

SKILLS

TECHNOLOGIES
•Nodejs • Express • Flask • NoSQL • SQL • MongoDB • MySQL • PostgreSQL • Flutter • AWS • Microsoft Azure • Tensorflow • Keras • Selenium • PowerBI • Tableau • Docker • Bootstrap • Git • BigQuery Git • Snowflake

LANGUAGES
Python • Javascript • C++ • C • C# • Java • R • Excel

EXTRACURRICULARS

- Deloitte Australia Data Analytics Job Simulation - Forage
  - Completed a Deloitte job simulation involving data analysis and forensic technology, creating a Tableau dashboard and using Excel for data classification and business insights.
- Commonwealth Bank Introduction to Data Science Job Simulation - Forage
  - Built privacy-compliant data pipelines and automated Excel-based aggregation workflows.Structured databases to enable accurate reporting and strategic decisions.

CERTIFICATIONS

- **SnowPro Core Certification**, Snowflake (ongoing)
- **Snowflake – The Complete Masterclass**, Udemy
- **Google Data Analytics Professional**, Coursera
- **Microsoft Certified: Azure Fundamentals**, Microsoft Learn (AZ-900)
- **Docker Foundations Professional Certificate**, Docker
- **Python Bootcamp**, Udemy
- **SQL Bootcamp**, Udemy
- **Web Development Bootcamp**, Udemy

LINKS

Github:// **atulrane03** | LinkedIn:// **atul rane** | Portfolio://**atulrane03.github.io**