MAULIK RAVAL

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EXPERIENCE

Teaching & Tutoring Assistant – Computer Science and Mathematics Departments

University of Regina   *March 2025 – Present*

- Conducted **Python- and SQL-based analytics labs** for 100+ students, covering data cleaning, visualization, and regression modeling.
- Automated grading and performance tracking for **200+ submissions** using **Pandas** and **Excel macros**, improving efficiency by **35%**.
- Performed **EDA and KPI visualization** (Tableau, Power BI) to identify learning trends, informing curriculum updates that raised average scores by **15%**.

Data Scientist (Intern)

Enlighten Infosystems   *Jan 2024 – Sept 2024*

- Engineered and optimized **ETL pipelines** using Python and SQL to integrate multi-source business data, improving data readiness and reducing preparation time by **30%.**
- Applied **EDA, correlation mapping, and outlier detection** to identify process inefficiencies, while developing **predictive models** (Scikit-Learn, TensorFlow) that enhanced forecast accuracy by **20%**.
- Designed **Power BI and Tableau dashboards** with automated Python/API data feeds to track sales, churn, and revenue KPIs, cutting manual reporting effort by **40%** and supporting data-driven decisions.

Python Developer (Intern)

Brainy Beam Technologies Pvt. Ltd.   *July 2023 – Jan 2024*

- Built **SQL-based reporting** APIs to centralize departmental metrics, improving data accessibility and governance across teams.
- Developed data validation and **QA frameworks** to monitor pipeline health, reducing reporting discrepancies by **90%+.**
- Automated **Power BI and Matplotlib dashboards**, enabling self-service insights and saving **15+ hours monthly** in manual updates.

EDUCATION

MSc. in Computer Science (Data Science)	**Sept 2024 - Present**
University of Regina	*Regina, Canada*
BTech. in Computer Science Engineering	**July 2020 - June 2024**
Gujarat Technological University	*Gujarat, India*

SKILLS SUMMARY

Programming & Querying: Python, SQL, C, C++

Libraries & Frameworks: Pandas, NumPy, Scikit-Learn, TensorFlow, Matplotlib, Seaborn

Data Analytics: EDA, Data Wrangling, Statistical Modeling, Forecasting, Hypothesis Testing, A/B Testing, Feature Engineering

Visualization & Reporting: Power BI, Tableau, Excel, Dashboard Automation, KPI Tracking, Data Storytelling

Database & ETL: MySQL, PostgreSQL, Data Cleaning, Query Optimization, ETL Pipelines

Cloud & Tools: AWS (S3, EC2, Glue, SageMaker), Azure, Git/GitHub, Jupyter, VS Code

PROJECTS

Human Resources Analytics – Dashboard

- Engineered a cloud-based **data pipeline** using AWS, Python to analyze **7.7M+ records** and enabled real-time risk insights via **Power BI integration.**
- Achieved **92%** prediction accuracy through advanced **feature engineering, cross-validation, and model tuning**., strengthening data-driven decisions in traffic safety.

Traffic Accident Severity Prediction Using Amazon Cloud - Dashboard

- Processed **7.7M+ accident records** using **AWS** with scalable ETL pipelines; engineered features in **Python and SQL** to train ML models achieving **92% prediction accuracy**.
- Performed **EDA, feature importance, and geospatial clustering** to uncover high-risk regions, and integrated predictive insights into **Power BI dashboards**, enhancing data-driven decisions in public safety planning.

Sales Performance Analytics - Dashboard

- Built automated **ETL workflows** using SQL, Python, and AWS Lambda to unify sales/marketing data, and created **Power BI dashboards** for revenue, churn, and campaign ROI.
- Applied **forecasting, funnel, and cohort analysis** to evaluate campaign performance and automate daily reporting, cutting manual effort by **40%** and speeding insight delivery.