

Soumya Agrawal

soumya.agrawal@utexas.edu • [linkedin.com/in/soumya/](https://www.linkedin.com/in/soumya/) • github.com/SoumyaAgrawal-git • (737) 297-9024

TECHNICAL SKILLS

- **Languages:** SQL, Python, VBA, R, Numpy, Pandas, Scikit-Learn, Matplotlib, Bash (UNIX Shell), MATLAB, Gurobi, Selenium
- **Tools:** Power BI, Tableau, MS Excel, Microsoft Office Suite, Alteryx, IBM Cognos, Jira, XLSTAT, SharePoint, GitHub
- **Skills:** Data Warehousing, Data Pre-Processing, Data Visualization, Data Wrangling, Agile Methodology, Regression, Optimization, Web Scraping, Statistics, A/B Testing, Database and Information Management

WORK EXPERIENCE

Dell Technologies – *Data Science Consultant (Capstone Project)*; Austin, TX January 2023 - Present

- Building a robust credit risk model using python in collaboration with cross-functional stakeholders to track credit performance, predict potential defaulters, and reduce millions in losses incurred due to financially distressed clients

Ericsson India Global Services Private Ltd. – *Senior Business Analyst*; Noida, India January 2020 - June 2022

- Spearheaded a team of 5 to reform license delivery workflow for a Fortune 50 telecom giant, performed root cause analyses using Excel, SQL, and Power BI, and remodeled internal tools; reduced TAT by 67% and increased accuracy by 29%
- Managed the Unix shell scripting team of 6 for a client's War Room, monitored, analyzed, and visualized daily KPIs through Tableau, and optimized the workflow to deliver within the client's strict 5G launch SLA; wireless service revenue increased by \$162M (6%) and wireless subscribers grew by 141K making the client the largest 5G network in Canada
- Trained 15+ teams on workflow optimization as an SME, designed training modules and SOPs, collaborated with cross-functional teams to upgrade business process for 10+ B2B clients globally translating to over \$2M in quarterly cost savings
- Initiated and led the automation of Shell scripting for a US-based network operator, developed dashboards, and published daily progress reports for stakeholders using Tableau; reduced manual effort by 43%

Ericsson India Global Services Private Ltd. – *Business Analyst*; Noida, India June 2019 – January 2020

- Performed diagnostic analysis on network data in Bash, conducted testing, and development on 5000+ site scripts of diverse configurations and technologies for 4 leading North American network operators using MS Excel, Unix Shell, and Cygwin
- Analyzed data from multiple external stakeholders against predefined standards using SQL to identify teams with frequent data discrepancies and improved productivity by 30% by collaborating with clients to develop better quality control metrics

EDUCATION

University of Texas at Austin May 2023

Master of Science in Business Analytics (STEM Designated) | GPA: 3.72/4.0 | Scholarship student (2022-2023)

Mody University of Science and Technology May 2019

Bachelors in Electronics and Communication Engineering | GPA: 8.17/10.0 | Scholarship student (2015-2019)

ACADEMIC PROJECTS

- **Beer Recommender System** – Scraped 10000+ reviews from a public beer forum using Selenium and built a crowdsourced beer recommendation system leveraging cosine similarity, word-embeddings, and sentiment analysis through VADER
- **Customer Segmentation and Targeting** – Performed RFM Analysis, Cohort Analysis, and 3-month Customer Lifetime Value prediction (CLTV) using Python-based Linear and Lasso Regression models. Proposed tailored marketing solutions and insights to target and retain the potential high-value customers of an online retail platform based on a historical sales dataset
- **Credit Score Classification** – Built a credit score classifier employing Logistic Regression, Decision Trees, and KNN models with stratified K-Fold cross-validation using python to separate customers into credit score brackets; achieved test accuracy of 74.7%
- **Formula One: Knowledge Management system and Trend analysis** – Conceptualized a data management framework for an aspiring F-1 team, developed data models, leveraged Oracle cloud database to establish a data lake and consolidate F1 data CSVs in a data warehouse. Performed descriptive analyses using SQL and built Tableau dashboards to identify best potential drivers

LEADERSHIP, HONORS, AND INTERESTS

- **Teach for India** – Taught mathematics to middle school students to bridge learning gap created during the COVID-19 pandemic
- **Enginium** – Led the bilingual literary, art, and technical writing club of Mody University as the Editor of Enginium magazine
- **Ericsson Power Award 2021** – Awarded for demonstrating excellent leadership, customer focus, and dedication
- **Know Your Team** – Initiated and led 60+ department-wide interviews to enhance team bonding program during pandemic
- **Interests** – Reading, Writing, Journaling, and Folk Dancing | **Languages** – English (Fluent), Hindi (Fluent), Korean (Beginner)