Parth Rajpara

parth.rajpara@utdallas.edu | (945) 240-1956 | Dallas, TX | linkedin.com/in/parthrajpara

Summary

Analytical and results-oriented Business Analytics graduate student with hands-on experience in predictive modeling, statistical analysis, and data-driven decision-making. Proficient in SQL, Python, R, and Tableau, with a focus on data visualization and uncovering actionable insights. Developed predictive models and implemented data-driven solutions that enhanced operational efficiency by 40%. Adept at working with cross-functional teams to analyze large datasets, streamline workflows, and support strategic business objectives.

Education

Master of Science, Business Analytics and Artificial Intelligence — ***August 2024 – Present***
The University of Texas at Dallas ***/ TX, USA*** — ***GPA: 4.0***

Bachelor of Technology, Electronics and Communication Engineering. — ***August 2020 – July 2024***
Gujarat Technological University ***/ GJ, India*** — ***GPA: 3.4***

Technical Skills

- **Programming Languages:** Python, C++, SQL, NoSQL, R
- **Databases:** MS-SQL, MySQL, PostgreSQL, MongoDB, Oracle
- **Data Analysis / ETL:** Power BI, Tableau, MS Excel, Data Modeling, Data Mining, DataExtraction, Big Data
- **Tools & Platforms:** Smartsheet, JIRA, Qlik Sense, Salesforce Analytics, Advanced Excel

Professional Experience

Data Science Intern, *Durvasa Infotech* — ***Jan 2024 - April 2024 | GJ, India***

- Developed predictive models for graduate admissions using Python libraries like pandas, scikit-learn, and TensorFlow, achieving 88% accuracy after optimizing through feature engineering and hyperparameter tuning.
- Collaborated with data scientists and engineers to optimize data preprocessing and model evaluation, achieving a 25% reduction in training time and boosting operational efficiency.
- Implemented best practices in data science, improving model precision by 20% and reliability.

E-Commerce Data Analyst Intern, *Satyam Fashion* — ***Aug 2023 - Jan 2024 | GJ, India***

- Applied Lean Six Sigma to optimize e-commerce operations, reducing return rates by 20% and increasing profitability by 30% through data-driven inventory decisions.
- Developed an Excel-based tracking system, automating sales, returns, and regional delivery cost analysis, cutting manual work by 40% and identifying high-return products using Pareto analysis.

Projects

Player Management System

- Built a player management system processing data points using SQL, MongoDB, Python, and Streamlit, streamlining decision-making through real-time data integration.
- Developed predictive models with 85% accuracy, improving team optimization by 40% through data-driven insights on performance and trends.
- Automated real-time data integration, syncing 100% of records across MySQL and MongoDB, cutting manual effort by 70%.
- Created dashboards tracking 10+ metrics, enabling A/B testing and supporting 500+ strategic roster decisions with real-time analytics.

Automobile Price Prediction and Customer Segmentation

- Developed a car price prediction model using R, achieving 96% accuracy with Random Forest and Gradient Boosting, aiding precise strategies in the automobile market through predictive analytics.
- Implemented clustering techniques (K-Means and Hierarchical) to segment customers into 4 groups, enabling tailored marketing and inventory decisions with 30% improved target accuracy.
- Cleaned and transformed a dataset of 8,000+ entries, handling missing data with mean/median imputation and creating dummy variables for categorical fields to enhance model performance.
- Visualized insights on customer preferences and vehicle trends using ggplot2, improving decision-making for inventory management and marketing by 40%.