

**Dhruvraj Singh Rathore**  
737-206-1179 | [dhruvraj\\_16@tamu.edu](mailto:dhruvraj_16@tamu.edu) | [linkedin](#)

## EDUCATION

<b>Texas A&amp;M University</b> <i>Master of Science in Data Science</i>	College Station, TX <i>Aug. 2024 – Present</i>
<b>SRM Institute of Science and Technology</b> <i>Bachelor of Technology in Computer Science Engineering</i>	Chennai, India <i>Jul. 2018 – May 2022</i>

## EXPERIENCE

<b>Student Research Assistant</b> <i>School of Public Health, Texas A&amp;M University</i>	Oct. 2024 – Present <i>College Station, TX</i>
<ul style="list-style-type: none"><li>Conducted <b>statistical analysis</b> on Medicaid data to derive actionable insights using Python and SAS.</li><li>Automated graph generation for project presentations using R, <b>reducing processing time by 30%</b>.</li><li>Performed <b>hypothesis testing using T-tests and Pearson correlation</b> to identify relationships between target columns, and <b>utilized Q-Q plots</b> to analyze distribution similarities across datasets over multiple years.</li></ul>	
<b>Data Analyst</b> <i>Draup Business Solutions</i>	Dec. 2022 – Jun. 2024 <i>Bangalore, India</i>
<ul style="list-style-type: none"><li>Implemented <b>scalable and robust ETL</b> data ingestion pipelines with <b>PySpark and SQL in AWS EMR jupyter notebooks</b>, enhancing reliability and resulted in a <b>35% improvement</b> in end-to-end data integrity.</li><li>Led a <b>cross-functional initiative</b> to architect a dashboard, processing 200 million <b>data checks through Airflow to generate 100+ exceptions</b>; rapid resolution of production issues.</li><li>Integrated <b>AWS Lambda with S3 and DynamoDB</b> to support ad-hoc client data request.</li></ul>	
<b>Data Analyst</b> <i>HighRadius Corporation</i>	Jul. 2022 – Nov. 2022 <i>Hyderabad, India</i>
<ul style="list-style-type: none"><li>Transformed data gathering phase by <b>simplifying data extraction and preprocessing steps with Python and SQL, decreasing total time for analysis by 50%</b>.</li><li>Designed a <b>Power BI dashboard</b> to share insights with stakeholders, <b>reducing decision-making time by 40%</b>.</li></ul>	
<b>Data Scientist</b> <i>HighRadius Corporation</i>	Aug. 2021 – Jun. 2022 <i>Hyderabad, India</i>
<ul style="list-style-type: none"><li>Collaborated with multiple Fortune 500 CPG companies to facilitate AR work distributions utilizing <b>time series data in Python, reducing manual efforts by 4 times</b>.</li><li>Created predictive models for customer payment date patterns leveraging <b>machine learning regression models, Bagging, and boosting algorithms like LightGBM</b>, resulting in a <b>70% increase in model accuracy</b>.</li><li>Optimized deployed ML models, boosting automation efficiency by 25% and achieving 35% revenue savings</li></ul>	

## PROJECTS

<b>Metastatic Cancer Detection</b>   <i>Python, CNN, Pytorch, Git/Github, Neural Networks</i>	Nov. 2024 – Dec. 2024
<ul style="list-style-type: none"><li>Integrated deep learning model using CNNs to classify metastases in histopathological images from the PatchCamelyon (PCam) dataset.</li><li>Applied data augmentation and batch processing to enhance model generalization and training efficiency.</li><li>Achieved an F1 score of 0.8768, demonstrating high accuracy in automated cancer metastasis detection.</li></ul>	
<b>Metro Interstate Traffic Volume</b>   <i>Python, Statistical Techniques, Model Development</i>	Nov. 2024 – Dec. 2024
<ul style="list-style-type: none"><li>Built a traffic congestion model using scikit-learn, with feature scaling, one-hot encoding, and time-series analysis.</li><li>Applied Random Forest, Lasso, Ridge, Linear, and Polynomial Regression with cross-validation.</li><li>Used pandas, NumPy, Matplotlib, and Seaborn for data analysis; tuned hyperparameters with GridSearchCV.</li><li>Evaluated with RMSE and R-squared; Polynomial Regression showed the best accuracy.</li></ul>	

## SKILLS

**Languages & Framework:** Python, R, SAS, Pandas, NumPy, Matplotlib, Scikit-learn  
**Database:** Postgres, MySQL, MongoDB, DynamoDB, Snowflake  
**Cloud Computing:** AWS Suite (EMR, S3, EC2, Glue, Lambda), Spark, PySpark  
**Tools/Platforms & Interest:** Git/GitHub, CI/CD, LLMs, Power BI, Tableau, Data Analytics, Pattern Analysis