Dhruvraj Singh Rathore

dhruvrajrathore2011@gmail.com | LinkedIn | 7372061179

EDUCATION

Texas A&M University, College Station, TX

August 2024 – December 2025

Master of Science in Data Science

SRM Institute of Science and Technology, Chennai, India

July 2018 – May 2022

Bachelor of Technology in Computer Science Engineering

WORK EXPERIENCE

Draup Business Solutions, Bangalore

December 2022 – June 2024

Data Analyst

- Implemented scalable and robust ETL data validation frameworks utilizing PySpark and SQL in AWS, enhancing reliability and resulted in a 35% improvement in end-to-end data integrity.
- Engineered a dashboard by working with cross-functional teams and created 100+ data exceptions by processing 200 million data leveraging PySpark and Airflow, enabling stakeholders to swiftly resolve production data issues.
- Standardized data mining and data wrangling pipelines, built a model predicting median base pay for 20M+ job roles and locations, improving accuracy by 40% over previous models.
- Integrated JIRA with command center dashboard to optimize ticket creation; assigned data issues to respective data owners, minimizing the manual effort by 70% and improving response time by 3x.

HighRadius Corporation, Hyderabad

July 2022 – November 2022

Data Analyst

- Transformed data gathering phase by simplifying data extraction and preprocessing steps with Python and SQL, decreasing total time for analysis by 50%.
- Developed a keyword matching algorithm to automate matching of claims to deductions, yielding 3x increase in net recovery rates and resulting in savings of approximately \$50M.
- Designed a **Power BI dashboard** to share insights with stakeholders, **reducing decision-making time by 40%.**

HighRadius Corporation, Hyderabad

August 2021 – June 2022

Data Science Trainee

- Collaborated with multiple Fortune 500 CPG companies to facilitate AR work distributions utilizing **time series data** in **Python**, **reducing manual efforts by 4 times.**
- Analyzed around 50M AR data using python scripts and performed Exploratory Data Analysis for data exploration.
- Created predictive models for customer payment date patterns leveraging ML regression models, Bagging, and boosting algorithms, resulting in a 70% increase in model accuracy.
- Refactored already deployed ML models by optimizing accuracy, precision and recall with hyperparameter tuning, leading to a 25% improvement in automation efficiency and 35% revenue savings.

SKILLS

Programming:Python, R Programming, Pyspark, Pandas, Numpy, SASVisualization:Power BI, Matplotlib, Seaborn, Tableau, Microsoft ExcelDataBase:SQL, Postgres, NoSQL, MongoDB, Data Warehouse, Redis

Cloud computing: AWS Suite (EMR, IAM, S3, EC2, Glue, Lambda), Apache Spark (PySpark), DevOps

Other: Git/GitHub, CI/CD, Version Control, Airflow, Map-Reduce, LLM

Certification: Python for Data Analysis and Visualisation, Statistics for Data Science,

Machine learning with Scikit Learn, MySQL for Data Analytics and business analytics

PROJECTS

• Cotton Field Detector

In this Hackathon project, the goal is to create a method to automatically identify and map agricultural boundaries and calculate the area covered by cotton crop land from a satellite generated image of the United States. We used UNET Algorithms in PyTorch to perform segmented image classification and masked only the cotton area ignoring other crops then used the pixels/area covered by the satellite image; we calculated the cotton crop area covered in acres.

• Credit Card Fraud Detection.

Devised a model to **predict fraudulent credit card transactions** by detecting anomalies in transaction amounts, locations, and other relevant data. Utilized Random Forest Classifier and Logistic Regression, achieving a ROC-AUC score of 97.96% through **hyperparameter tuning** with GridSearchCV.