

Education

Indiana University Bloomington, Indiana

Aug 2022 – May 2024

Master of Science in Data Science

GPA: 3.71 / 4.0

Coursework: Advance Database Systems, Software Engineering, Applied Machine Learning, Data Mining

Vellore Institute Of Technology, India

Jul 2018 – Jun 2022

Bachelor of Technology in Computer Science and Engineering

GPA: 8.20 / 10.00

Coursework: Data Structures and Algorithms, Data Visualization, Operating Systems, Computer Architecture

Experience

Chargebacks911

May 2023 – Dec 2023

*Data Scientist — Python, AWS, SQL, ETL, PHP, S3 buckets**Clearwater, FL*

- Spearheaded an initiative to improve serverless project efficiency by overhauling the file ingestion pipeline process in ETL, resulting in a **50% reduction** in file ingestion time and enhanced system performance.
- Streamlined communication and collaboration between technical and data teams to address critical issues in **Python cron scripts and SQL data collection**. Improved data collection efficiency, storage and reduced data discrepancies by 15%.
- Integrated a feature that automatically detects and removes unnecessary headers and values from files, effectively reducing **AWS S3 storage** consumption by 15%.
- Identified and analyzed key patterns and features, optimizing the **chargeback fraud detection model** and increasing accuracy by 25%, resulting in a 30% reduction in fraudulent claims and patterns.
- Implemented a scalable data warehousing solution on **AWS**, for efficient data storage and complex query execution, which improved data retrieval speeds by 40% and supported **advanced data analysis** needs for strategic decision-making.

Indian Space Research Organization

Jan 2022 – Jun 2022

*Data Science Intern — Python, QGIS, GIS, MIDAS, NoSQL, Rasterio**Ahmedabad, India*

- Implemented machine learning algorithms on **Synthetic Aperture Radar(SAR) data sets of S(3.2GHz) and L(1.25GHz)** bands for classification of crops and grasslands, integrated data modelling for analysis.
- Built three **unsupervised learning algorithms** to enhance land classification accuracy by 15%, enabling precise identification of croplands, wetlands, and grasslands for effective government policies and emergency support to farmers.

Triffid Ltd.

Jan 2021 – Jun 2021

*Software Engineer Intern — React, Vue.js, Node.js, Mongo, APIRequests, Regex, UI/UX**Ahmedabad, India*

- Deployed an e-commerce platform containing more than 3000 products using front-end technologies and user authentication using passport. Streamlined the shopping experience and boosted user engagement through its user friendly interface.
- Enhanced data management efficiency by integration of **APIs for optimizing data handling** by 12%. Involved custom API selection to match unique data structure, leading to faster decision-making and operational efficiency.

Projects

Energy Consumption Forecasting for Smart Grids — Python, SQL, ARIMA, LSTM, Tableau Nov 2023 – Feb 2023

- Engineered an advanced machine learning models utilizing ARIMA and LSTM techniques to accurately forecast energy consumption patterns across multiple scales with 70% accuracy.
- Processed fine tuning forecasting algorithms to achieve a remarkable 95% accuracy in predicting short-term energy demands and an 70% accuracy for long-term forecasts.

Delivery Management Systems — Python, React, MongoDB, SQL, JSON, GoogleAuth

Aug 2023 – Dec 2023

- Implemented a real-time tracking feature that provided both customers and the delivery team with accurate ETAs and location tracking, enhancing customer trust and improving efficiency in the delivery process.
- Designed an intuitive user interface for delivery personnel, streamlining the pickup and drop-off process. This enhancement led to a 25% reduction in delivery handling time and increased daily delivery capacity.

Road Safety Analysis and Visualization — Tableau, SQL, Data Analysis

Aug 2020 – Dec 2020

- Conducted statistical analysis and modeling using road traffic data and FARS dataset of over 30000 records to identify patterns and insights related to accidents.
- Developed a Tableau dashboard revealing key factors in high fatality rates, resulting in targeted measures and a 15% reduction in fatalities.

Technical Skills

Languages: Python, Go, JavaScript, C++, PHP**Databases:** MySQL, Microsoft SQL Server, PostgreSQL, MongoDB, Apache Cassandra**Web-Frameworks:** React.js, D3.js, Node.js, Express.js, HTML, CSS, bootstrap, Spring Boot, Hadoop, PySpark**DevOps/Cloud:** Docker, Kubernetes, Alteryx, Kafka, Jira, Jenkins, Git, AWS, GCP**Certifications:** AZ-900 Azure Fundamentals, AWS Certified Cloud Practitioner, Tableau Desktop Specialist