



DEV MITHUNISVAR PREMRAJ

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Education

Northeastern University, Boston, MA

Expected May 2025

Master of Science in Information Systems

GPA: 3.8

Relevant Courses: Application Development and Engineering, Data Science Engineering and Tools, Program Structures and Algorithms, and Big-Data Systems and Intelligence Analytics.

Anna University, Chennai, TN

Aug 2017 – May 2021

Bachelor of Science in Electrical and Electronics Engineering

GPA: 3.4

Relevant Courses: Object Oriented Programming, Python Programming.

Technical Skills

Languages: Python, Java, HTML/CSS, JavaScript, SQL, REST, HTML5, CSS3, Linux (Shell), Swagger.

Databases and DevOps Tools: MySQL, Microsoft SQL Server, DynamoDB, Docker, Git, Atlassian Jira, Scrum, Agile.

Visualization Tools and Libraries: Tableau, PowerBI, Pandas, Microsoft Excel.

Machine Learning: Un-supervised Machine Learning, CART, TensorFlow

AWS: AWS Lambda, ECS Fargate, Sagemaker, EC2, CloudWatch, S3.

Certifications: AWS Certified Solution Architect, Tableau Certified Data Analyst, TensorFlow Certified Developer.

Experience

LTIMINDTREE

Oct 2021 – Nov 2022

Software Engineer

Chennai, Tamil Nadu

- Created and managed data pipelines, databases, and dashboards, to convey valuable insights to business stakeholders.
- Developed ETL processes to manipulate data, restructured Jira databases and used Microsoft SQL to store weekly snapshots.
- Executed efficient Kafka migration of 50 products and 80+ services, achieving faster and reliable transfers in 1/3 the time from legacy system.
- Developed and maintained an automated reporting module to collect and analyze data, resulting in an 18% reduction in redundancies.
- Reduced manual workload by 50%, streamlining maintenance of existing Db2 mainframe applications through automation and optimization.
- Explored Microsoft Azure analytics, setting up an automated workflow for file deposit in a remote data lake storage.

Projects

Accident Severity Prediction | *Python, Machine Learning, Tableau*

Dec 2023

- Performed CART and supervised learning models to build a Classification model for users, classifying and visualizing 7 million records into 4 categories based on accident severity using the environmental conditions.
- Implemented feature engineering, hyper-parameter tuning and evaluated the models based on ROC, Accuracy score, precision and recall.
- Used Tableau to manipulate and visualize Accident Severity data to identify insights and KPIs for decision-making.

Disaster Management App | *Java, MySQL*

Nov 2023

- Created an UI using Java and Swing to provide surveys and relief to people affected by disaster across various states of the united states.
- Utilized the Jfree library to create visualizations to provide insights about top performing customers in various organizations, the magnitude of disasters on various states and cities.

Image Classification Using Amazon Sagemaker | *Java, Android Studio*

July 2023

- Extracted annotations and organized IIIT-Oxford Pets Dataset into structured training and validation sets.
- Trained an effective image classifier using the Sagemaker execution role and customized training images.
- Created and managed an S3 bucket for seamless storage and retrieval of project-related data.
- Developed a Sagemaker Estimator for streamlined model deployment, and Conducted a thorough evaluation of model performance, ensuring alignment with project objectives and achieving high-quality results.

Uber data Analytics | *Java, Eclipse, JavaFX*

October 2022

- Designed a sample banking transaction system using Java to simulate the common functions of using a bank account.
- Used JavaFX to create a GUI that supports actions such as creating an account, deposit, withdraw, list all accounts, etc.
- Implemented object-oriented programming practices such as inheritance to create different account types and databases.

Publication

Conference Paper: Dev Mithunisvar Premraj and Dhruvraj Singh. "Predicting Power Consumption Using Tree Based Models". In: International Conference on Intelligent Computing, Communication and Information Security (ICCIS-2022).