

ESHWAR REDDY GADI

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EDUCATION - Texas A&M University, College Station, TX (2021 – Present)

- Bachelor of Science, Major in Computer Science, Minor in Economics. GPA 3.68/ 4.00.
- Relevant Coursework: Data Structures and Algorithms, Discrete Mathematics, Linear Algebra, Design and Analysis of Algorithms, Foundations of Software Engineering, Machine Learning.

SKILLS

Languages: C++, Python, Java, HTML, JavaScript, Golang, Rust **Technologies:** Git, Arch Linux/Unix
Frameworks: Android Studio, Flutter, Node.js, ReactJS

EXPERIENCE

Student Technician (Texas A&M University – Technology Services, Oct 2022 – Present)

- Developing a ticketing system that processes client requests and incidents, maintaining an organized record of incoming data, and generating automated reports at predefined intervals.
- Designed a Service-Now based user interface, providing technical personnel with access to client requests for efficient and effective processing.

Software Developer (Seatgull, LLC, Dec 2021- March 2022)

- Spearheaded the creation of a dynamic GroupMe bot using Python and the GroupMe API. Seamlessly integrated front-end marketing strategies with backend Rust development to drive company objectives.
- Contributed to the transition from Python to Rust for the backend of Seatgull's class registration platform, resulting in a substantial boost in performance and responsiveness.
- Applied Rust's memory-safe constructs and high-performance capabilities to refactor critical components, delivering 13% reduction in processing time.

PROJECTS

Machine Learning/Data Science (2021-Present) [github.com/EshwarReddy13/ Machine-Learning-Projects](https://github.com/EshwarReddy13/Machine-Learning-Projects)

- **Climate and Covid Cases Clustering using K-Means:** By using the K-means clustering algorithm, this project aimed to uncover underlying patterns in weather data and its relationship with COVID-19 spread.
- **Office Room Monitoring using Logistic Regression:** Utilized logistic regression to predict office room occupancy using environmental data, providing real-time insights for efficient energy use and workspace planning. Demonstrated practical application in optimizing room utilization.
- **Ozone Analysis using k-NN and NB:** Applied k-NN and Naive Bayes algorithms to classify ozone levels as low or high based on sensor data. This effort deepened insights into star categorization, enriching astronomical research and knowledge.
- **Star Classification using ANN:** Executed image classification of stars using Artificial Neural Networks (ANN) to categorize stars into distinct classes.
- **Wildlife Detection using CNN:** Designed a CNN for classifying fire and smoke presence in images, utilizing machine learning to differentiate positive (fire/smoke) from negative (non-fire) instances.

Chad Bot / AI-bot (Hackathon) (March-2022)

- Built an AI bot using Python and Pygame. The bot's aim is to find the shortest path out of the maze. Implemented the A* path finding algorithm to determine the most efficient path while considering dynamic enemy movements as a hindrance.
- The algorithm utilizes a heuristic approach to calculate the estimated cost of reaching the target, combining it with the actual cost of traveling through the grid. This approach allowed for real-time decision making and a constantly updated path.

TAMUhack 2022 (Hackathon) (Feb-2022)

github.com/EshwarReddy13/Buckle-UP

- Developed a Java-based, Android Studio-powered application aimed at promoting safe driving habits. Integrating the Google Maps API, the app tracks driving behavior and provides real-time feedback.
- The application features a reward system that assigns points based on driving behavior evaluation, utilizing the Google Maps API to detect instances of speeding, among other metrics. Accumulated points can then be redeemed for insurance discounts.