SIDDARTHA GORUGANTI

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EDUCATION

North Carolina State University, Raleigh, NC.   **08/2023 - Expected May 2025**
Master of Computer Science   **GPA: 4.0/4.0**
Coursework : Software Engineering Practices, Data Science, Object oriented development, Cloud Technologies.

Osmania University (UCEOU), Hyderabad, India.   **07/2018 - 06/2022**
Bachelor of Engineering in Computer Science   **CGPA: 8.73/10**

TECHNICAL SKILLS

- **Languages:** C, C++, Java, Dart, Python.
- **Web Technologies :** HTML5, CSS, JavaScript, Typescript, NodeJS, ReactJs, Flutter, Ruby on Rails, REST Api's.
- **Databases :** My SQL, PostgreSQL, Firebase database, MongoDB.
- **Skills and Tools:** AWS Amplify, Docker, GIT, Visual studio, CI/CD, DBMS, Operating Systems, OOP'S.

WORK EXPERIENCE

Software Developer Engineer, Broadridge, India   July 2022 - July 2023
- Developed the project 'DLT Repo', a **Blockchain**-based platform for repo transactions, utilizing **RESTful APIs** and **DAML** to streamline settlement processes, enhancing transaction efficiency by around 30%.
- Involved in the initial design of the Sponsored Repos model, developed **Node.js** API endpoints for settlements, and built user-centric screens using Material UI and **React.js**, enhancing system responsiveness by 50%.
- Utilized **PostgreSQL** for robust data management and **Docker** for containerization of services, Azure for ensuring scalable and secure application deployment; maintained code integrity and workflow using GIT.
- Operated in an **Agile** environment, collaborating with a 40-member web team to streamline development processes.

Software Developer Intern, Fosterate, India   Feb 2022 - June 2022
- Leveraged the **Flutter** framework to develop a real-time mobile application, creating an interactive dashboard that increased user engagement by 20% and showcased trending company services with enhanced functionalities.
- Designed and integrated multiple API's with the help of **Firebase** fire-store, optimising the application's core functionality and ensuring robust, secure and efficient data handling and management processes.
- Engineered an automated **CI/CD** pipeline using **Jenkins**, streamlining build, test, and deployment processes. Enhanced test coverage and tracked issues in **Jira**, reducing bugs by 40% for reliable software delivery.

PROJECTS

Web Application Development
- Built a **full-stack** web application to track daily expenses for effective budgeting and financial planning.
- Implemented application features include real time budget tracking, data visualization, secure user authentication.
- Technologies used include HTML, CSS for frontend, **NodeJS** for API handling and **MongoDB** for database.

Full Stack Web Development Link
- Built a Ruby on Rails web application for railway ticket booking with features like user authentication, profile management, dynamic seat availability, rating-review system and a comprehensive admin dashboard.
- Implemented testing using the **Spec** framework achieving 90% coverage to ensure system reliability.
- Used **Ruby on Rails** for the backend functionality alongside **React** to enhance the user interface.

Machine Learning Analysis
- Utilized multiple machine learning models including Linear Regression, Decision Tree, Random Forest, and Support Vector Machine models to predict 2024 carbon emissions based on historical data.
- Employed the Climate Watch Historical GHG Emissions dataset, covering 193 countries from 1990 to 2020.
- Applied machine learning techniques to enhance prediction accuracy, achieving a 30% lower **RMSE** with **Linear Regression** compared to the next best model.

Web development Link
- Developed a **gitlab** miner tool to extract user specific metrics and activities using **GraphQl** queries.
- Executed graphql queries to obtain detailed insights into user contributions on gitlab which include gists, issues, pull requests, **repository** discussions and overall repository contributions.
- Constructed an user-friendly user interface using **React** framework to effectively display extracted metrics.

LEADERSHIP

- **ML Workshop -** Coordinated a 2 day AI & ML workshop facilitated by industry experts to enhance participant skills
- **University Hackathon -** Led a 4 member team to a 3rd place finish among 30 teams in university-wide hackathon.