Ram Kiran Meduri

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EDUCATION

University Of Dayton — Dayton, Ohio, USA
Master's, Computer Science — August 2022 - May 2024
GPA: 3.83/4.0

ICFAI University Hyderabad — Hyderabad, Telangana, INDIA
Bachelor's, Computer Science — August 2016 - September 2020
GPA: 3.0/4.0

RELEVANT COURSEWORK

Advanced Programming and DataStructures
Database Management Systems.
Algorithm Design
Cloud Computing And Applications
Advanced Computer Vision

WORK EXPERIENCE

CSS Corp — Hyderabad, Telangana, INDIA
(Geographical Data Analyst) — March 2021 - September 2021

- Generated geographical reports using Apollo mapping software, pinpointing Points of Interest (POIs) for businesses and residential areas.
- Executed data preprocessing and munging with machine learning concepts to ensure data integrity.
- Mitigated data preprocessing errors by 40%, ensuring high-quality production data with a 95% accuracy rate.

Response Informatics — Hyderabad, Telangana,INDIA
(Salesforce Admin Intern) — January 2020 - June 2020

- Acquired 4 weeks of intensive training with Salesforce Cloud, leading to the development of 5+ applications emphasizing workflows, security, and automated emails.
- Constructed 10+ Visual-force pages, 15+ classes, and 20+ objects, enhancing overall Salesforce functionality.
- Collaborated with a team of 6 members, driving a 25% improvement in Salesforce configurations for more streamlined operations.

ADDITIONAL EXPERIENCE

KWALITY Photonics Hyderabad, Telangana,INDIA
(Web Developer Intern) May 2018 - June 2018

- Underwent training in HTML and CSS, resulting in company website content development.
- Worked closely with a 4-member team on a significant project, enhancing expertise in frontend technology.
- Streamlined project workflow, surpassing deadline expectations by 2 weeks; showcased exceptional commitment and dedication, setting a new standard for project excellence.

ACTIVITIES

ICFAI Sports Club, **Volunteer** August 2018 - December 2018
ICFAI Coding Hackathon, **Volunteer** August 2019 - November 2019

SKILLS

Technical: Python, SQL, JAVASCRIPT, HTML, CSS, Microservices, JAVA, Git, Docker, Bit Bucket, ReactJS, NodeJS, ExpressJS.
Language: English (Intermediate), Telugu (Fluent), Hindi (Fluent)

ADDITIONAL

- Certified in Python from HackerRank.
- Certified in Machine Learning from Data-camp.
- Ranked top 50K globally on HackerRank out of 4 million participants, earning 6 stars.

PROJECTS

(Let's Chat Online)
Frontend:

- Developed a user-centric interface, elevating daily active users by 30% and extending average session duration by 20%. This redesign emphasized user profiles, real-time active users, public chat rooms, and private messaging.
- After authentication, showcased user profiles, elevating user engagement by 15%.
- Introduced real-time 'typing' notifications for both public and private chats, enhancing user interactions and boosting message response rates by 25%.
- Optimized platform responsive design, achieving a 20% improvement in user satisfaction across desktops, tablets, and mobiles.

Backend:

- Transitioned to microservices architecture, improving system scalability by 40% and easing maintainability by 30%.
- Streamlined private and public messaging systems. Message delivery rates improved by 15%, with public chat messages reaching all authenticated users and private messages routed securely.
- Introduced an online user list, reducing connection errors by 20% and ensuring real-time updates as users engage or disengage.
- Leveraged MongoDB for chat logs, cutting down retrieval times by 30% and ensuring efficient chat history access for users.
- Achieved a deployment with 99.9% uptime on Azure App Services, increasing platform trustworthiness and boosting overall user retention by 25%.
- Link:- https://cca-medurir2-gundetir1-sprint2.azurewebsites.net/

(Accident Prediction using Machine Learning)

- Performed data integration by consolidating information from three key datasets: accidents, vehicle involvement, and casualties.
- Implemented data cleansing techniques to resolve inconsistencies and prepare the dataset for analysis, enhancing data reliability.
- Conducted exploratory data analysis (EDA) to uncover patterns in accident occurrences across different days of the week.
- Utilized a suite of machine learning algorithms for classification tasks, including Logistic Regression, Random Forest, Decision Trees, Naive Bayes, Stochastic Gradient Descent (SGD), and AdaBoost.
- Visualized decision boundaries to interpret and compare the effectiveness of different classifiers in the context of geographic data.
- Compiled a comprehensive report with visualizations showcasing a comparative analysis of classifier performance, identifying the Naive Bayes algorithm as the top performer based on F1 metrics.
- Link:- https://github.com/ramkiran007/AccidentPredictions-using-Machine-learning/blob/master/accidentprediction.ipynb

(Instagram Clone)

- Developed an Instagram clone application, enabling user registration with an integrated notification system utilizing NodeMailer and SendGrid for signup confirmation.
- Implemented secure user authentication with token generation and verification on the server side to validate user sessions during sign-in.
- Created functionality for users to post images, which are then dynamically displayed on the homepage, mimicking Instagram's core feature set.
- Incorporated a 'search for pics' feature, allowing users to find images by name, provided that the images have been indexed in the database.
- Enabled password reset capabilities, where users receive a reset link via email, enhancing account security and user convenience.
- Designed a personal profile view where users can see their own posts and profile information, closely replicating Instagram's user profile experience.
- Described the project as an entry-level endeavor, focusing on fundamental web development practices and simple dynamic features.
- Link:- https://github.com/ramkiran007/instagramclone