

Prabhleen Kaur Saini

MSCS - Computer Science - May 2024 Graduate (M.S.) Seeking

Experience at The University of Texas at Dallas and Josh Software Pvt Ltd https://engineering-utdallas-csm.symplicity.com/profiles/prabhleenkaur.saini <

Personal Statement

Tech enthusiast on a mission to turn ideas into reality! Currently mastering Computer Science at The University of Texas at Dallas, I've harnessed technology to solve critical healthcare challenges and predict crime in Dallas city using machine learning. In my last internship, I optimized APIs, boosting customer satisfaction. Proficient in Python, JavaScript, and web frameworks like Ruby on Rails and React. Eager to join an organization that shares my passion for tech-driven problem solving.

Education

Graduation Date: May 2024

MSCS - Computer Science

Graduate (M.S.)

Experience

Nov 2022 - Present

Teaching Assistant

The University of Texas at Dallas - Dallas, Texas

Description: · Supported software engineering and theory of computation courses as a TA, utilizing strong communication and interpersonal skills to facilitate learning and foster collaboration · Assisted with course materials and assignments, demonstrating organizational abilities and attention to detail for delivering high-quality education and supporting student success

Jan 2022 - Jul 2022

Software Development Intern

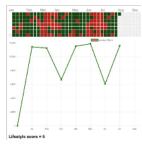
Josh Software Pvt Ltd - Pune, India

Description: · Optimized API performance by implementing Redis, reducing load time from 27 seconds to an impressive 3 seconds · Automated daily consumption report generation using cron jobs, streamlining the process and ensuring timely delivery of reports to all customers · Resolved complex errors by conducting thorough research and developing effective solutions, rigorously tested for optimal functionality and performance · Conducted comprehensive sanity and unit testing to identify and resolve 150+ bugs in the software; reduced customer support issues by 40% and improved customer satisfaction by 25%



Github Java HTML5 AWS Lambda Pandas Machine Learning Ruby ReactJS NumPy Ruby on Rails CSS5 Python MongoDB Javascipt MySQL Redis

Projects



Aug 2023 - Present

Lifestyle Score

The application monitors users' daily physical activity using step counts and calorie data, combining it with clinical information to define an "active" lifestyle. Users can earn up to 1 lifestyle score point each month by consistently following healthy habits. This incentivizes positive choices and responsible behavior. The lifestyle score significantly influences interest rates for instant medical loans. With each earned point, the interest rate decreases by 10%, promoting affordability and rewarding users for maintaining an active lifestyle.

Skills:

ReactJS Firebase Redis

Sample Work

https://github.com/prbln/LifestyleScore

YouTube

https://www.youtube.com/watch? v=Mpg3MZPoUFU&ab_channel=Prbln

Jan 2023 - May 2023

Dallas Crime Prediction

· Cleaned and processed 1 billion data points from the Dallas Police Incidents dataset · Developed and fine-tuned models achieving 81% accuracy in identifying high-crime divisions based on specific day and time. Skills:

Machine Learning Visualization

Python Data Analysis

Sample Work

https://github.com/prbln/CrimePredictionDallas

Report

The Spider-Sense, an extrasensory awareness of impending danger felt by Spider-Man, which helps him fight crime. Considering the alarming increase in crimes over the past few years, the law enforcement officers can definitely benefit from Spider-Sense. This study introduces a novel approach to crime prediction, which could prove to be valuable to law enforcement agencies in preventing and reducing crime in their jurisdiction. To make this possible, this project pro-poses using machine learning techniques and massive amount of publicly available police incident data to predict areas prone to severe crime at specific days and times(Shah, Bhagat, & Shah, 2021). This project could assist police officers in route designing, resource



allocation, and detecting and preventing crimes at a more accurate and faster rate.

Download



Download

https://github.com/prbln/CrimePredictionDallas



Aug 2021 - Dec 2021

AI Assissted Museum Tour

This Project uses a conversational AI voice bot and an interactive audio guide to revamp the image of museums and disseminate information in an attractive fashion.

Skills:

HTML5 AWS Lambda

Beautifulsoup CSS5 Mys

Javascipt

Sample Work

https://ai-assisted-museum-tour.netlify.app/

Honors and Awards

TechTogether Hackathon Winner Issued by TechTogether on Aug 2023

Contact



Personal Website

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ECSCareers

