SIVAKAMI THINNAPPAN

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Skills

Languages	Python, Java, JavaScript, Bash, HTML, CSS, R, C, C++
Frameworks	Backbone.JS, ES6, React, Redux, Node, Typescript, OpenCV
Tools/Platforms	Oracle Virtual box, MongoDB,Pl/SQL, MySQL, TensorFlow, Keras, Docker, GIT, bitbucket, Linux Command Line, Jira, Google Firebase, Figma, Postman, Insonmia

Experience

Lookout Inc. *Remote, USA*

Software Development Engineer Intern *May 2022 – Aug 2022*

- Standardized table component (Admin Audit Logs) by adding date filter, row filter, and download CSV buttons
- Integrated APIs for search bar, date filter, and server-side pagination
- Worked on toast message component and UI bug fixes

Purdue University *Fort Wayne, Indiana*

Teaching Assistant *Aug 2021 - May 2022*

Courses: Software Engineering, Database Systems, Human Computer Interaction and Program Language Design

- Management of end-to-end student projects adhering to the SDLC and agile methodologies
- Serving as a link between SEET lab (client organization) and student teams
- Organizing and managing student GIT repositories
- Holding weekly meetings to receive project updates and to provide feedback
- Conducting weekly quizzes, grading assignments, and proctoring exams for graduate and undergraduate students

Projects

Road Lane Detection

- Performed comparative study between traditional computer vision approach implemented using Canny Edge detection & Hough transforms and deep learning approach implemented using TensorFlow's SegNet to identify lanes on a road in real time

Implementation of Zozzle

- JavaScript malware detector with low false positive rate, static and suitable for In-browser deployment.
- Implemented machine learning models with more than 90% accuracy to classify and predict the malicious and benign data using random forest classifier.

Chrome Dinosaur game with Genetic Algorithm

- Google Chrome's Dinosaur Game is simulated using python, and the objective is to reach the high score
- Simple network is implemented to iterate the game and optimize it using Genetic algorithm

Analysis of Netflix data and developing recommendation system

- Pre-processed the dataset and used the necessary fields from the data frame
- Analyzed the Netflix data by exploring the percentage of movies and TV shows, top 5 in each category, top producingcountries, top genre and top artist, and content produced over a month and a year
- Recommendation function was generated based on the description of the movie or TV show using K-means clustering

Amazon clone

- Developed a web application using React.js and enabled Firebase authentication
- Components like header with search bar, home page, sign in option, cart, product review page with subtotal and manyother features were implemented

Deep learning based seamless attendance system with Automatic Email alert

- The system marks attendance using face recognition and the recognized faces are matched with the predefined data
- The result is updated in the spreadsheet and mailed to the authorized personnel
- Convolution neural network (CNN) model is used for identifying faces from the image from CCTV footage

Education

Master of Science in Computer Science ***GPA: 3.56/4.0***

Purdue University, Fort Wayne, IN *JAN 2021 - DEC 2022*

Bachelor of Engineering in Computer Science ***GPA: 7.9/10.0***

Anna University, Chennai, India *AUG 2016 - SEP 2020*

Involvements

The National Cyber League (competition)

Participated in Individual Game and Team Game

Certification courses (Udemy)

Artificial intelligence A-Z, Machine learning and Deep learning