Sahana K

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EDUCATION

JSS Science and Technology University 2024
Computer Science and Engineering
CGPA: 9.7 (up to 5th semester)
Coursework: Data Structures, Design and Analysis of Algorithms, OOP using Java, Operating Systems, Data communication, Database Management Systems, Computer Networks.

SKILLS & INTERESTS

- **Technical skills**: C, Machine Learning, C++ (Basics), Python (Basics), Java, JavaScript (Basics), HTML, CSS (Basics), Node.js, Express.js, MySQL.
- **Soft skills**: Event Management, Team work.
- **Certifications and courses**: Machine Learning Specialization (Coursera), A-Z Machine Learning (Udemy).
- **Languages**: English, Kannada.

PROJECTS

Resume Parser & Role Recommender
- An ML model that parses resumes, classifies the resume to a suitable job role and recommends related job roles. Built using Decision Tree classification algorithm and Content-Based Filtering recommender system algorithm. The model was integrated with the frontend using Streamlit.

Credit Card Fraud Detection Model
- A credit card fraud detection model using Random Forest classification algorithm. SMOTE technique was used to handle data imbalance. Metrics used: accuracy (99%), precision, f1 score, recall score.

PCOS Detection Classifier
- Implemented ML classification models to detect PCOS in women using 6 different classification algorithms and compared the recall and f1 scores of each. Naive Bayes' Classification proved to have the highest accuracy (90.18%).

Fake News Classifier
- Implemented ML classification model to check if the news is real or fake. Built using NLP techniques and supervised learning algorithms. Decision tree classifier proved to have the highest accuracy (99%).

Stock Price Prediction
- Implemented ML regression model to predict stock price. Used various models to compare their accuracies. Implemented a web application using Flask to provide a user-friendly interface for stock price prediction.

Secure On-Board Communication
- Implemented a basic SecOC working in the field of automotive cybersecurity using python.

Blog website
- Project developed using Node.js, Express.js and Ejs.

Drum project
- Designed a virtual drumkit using HTML, CSS and JavaScript.

EXPERIENCE

- Delivered a presentation on arrays and strings (data structures) during an event organized by the Linux Campus Club at JSS Science and Technology University.
- Actively participated in a comprehensive workshop on Machine Learning (ML) and Deep Learning (DL) organized by Google Developer Student Clubs.
- Actively volunteered for an event organized by The Editorial Board.