Sreeya Nimmagadda

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EDUCATION

University of Massachusetts Dartmouth Aug 2022 - May 2023

Masters in Computer and Information Science

KLUniversity   **Aug 2018 - May 2022**

Bachelor of Computer Science (Major in Data Science)

INTERNSHIP

Implementing and learning LIMA - **June 2023 - July 2023**

Academic Projects

Classification of remote sensing data

The project aimed to evaluate machine learning algorithms for classifying remote sensing data using three data sets. Five algorithmic styles were used: Support Vector Machine (SVM), Decision Tree, Random Forest, Gradient Boosting, and K-nearest neighbors (KNN). Principal Component Analysis (PCA) was incorporated into the data preparation process. The models demonstrated promising performance, particularly in land cover and forest fire mapping tasks. The findings contribute to understanding effective machine learning applications in remote sensing.

Number Plate Recognition

A license plate detection system was developed for vehicle identification in parking lots, toll booths, and restricted access areas. The system uses image processing to capture and identify vehicles based on their license plates. It uses OpenCV for license plate recognition and Pytesseract for letter and digit extraction. The system is versatile and can handle various license plate images. The Smart Parking Service (SPANS) is integrated into the system to detect available parking spaces and capture license plate numbers in real-time. This technology can be deployed in smart transportation systems and intelligent parking management.

Data Analysis on India Level Covid-19 Spread

The need for comprehensive data analytics to manage the impact of the second wave of COVID-19 in India. The analysis aims to analyze active cases, recovered cases, and lives lost for each state, creating awareness among the public, organizations, and social entities to mitigate the pandemic's effects. The study uses Python programming language for cluster analysis, plotting techniques, and the enhanced version of the SIR Epidemic model for predictive analysis. The results show a significant increase in positive cases across India, leading to the emergence of the second wave. The analysis emphasizes the importance of social distancing and mask usage in suppressing the spread and calls for caution and preventative measures.

Technical Skills

- Computational Languages Skill Set:C,java,python
- Database Skills : SQL,ETL
- Cloud Computing : AWS,Azure,Google Cloud

Certificates

- Google Cloud Essentials quest
- Mathematics for Data Science
- IBM Data Science
- Statistics with Python
- Effective Problem-Solving and Decision-Making

Inter Personal Skills

- Hard Working
- Learning Potential
- Empathy and Adaptability

Interests

Passionate about artistic expression through painting, showcasing creativity, and attention to detail. Proficient in diverse cooking styles, reflecting a keen interest in culinary arts.