Deepak

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About Me

I am a passionate and motivated second-year B.Tech student with a strong interest in Machine Learning and Artificial Intelligence. Eager to apply theoretical knowledge to practical challenges, I am actively building a foundation in ML through academic projects, online courses, and hands-on experimentation. I thrive in collaborative environments and am committed to continuous learning and skill development to pursue a career in intelligent systems and data-driven technologies.

Skills

- Problem solving
- Languages : Python ,Java

  Database :Mysql, MongoDB
- DSA
- fundamentals : HTML, CSS, JavaScript , express
- Python Libraries : Numpy, Pandas, Matplotlib, seaborn, sklearn
- Visualisation Tools : Excel , PowerBI

Education

Bachelor of Technology

Sushant University 2023-present

- Currently in 2nd year with a strong academic foundation in programming, mathematics, and core engineering subjects
- Actively exploring fields of Machine Learning, Artificial Intelligence, and Data Science
- Engaged in relevant coursework including Data Structures, Algorithms, Python Programming, and Linear Algebra
- Participating in workshops, coding contests, and online certifications to strengthen technical skills

Projects

Cat and Dog Recognition

github : https://github.com/dkadian/Dogs_cats_recog

Developed an image classification model using Support Vector Machine (SVM) in Python to classify images of cats and dogs from the Kaggle Cats vs Dogs dataset. The project involved loading and preprocessing the dataset, performing feature scaling, and training an SVM classifier with a linear kernel. Experimented with different kernels to evaluate and improve model performance on a test set. This project helped build a strong foundation in SVM-based image classification and can be extended further by tuning hyperparameters and implementing data augmentation techniques for improved accuracy.

K-means Clustering

github : https://github.com/dkadian/K_means_clustring

The objective is to implement a K-Means clustering algorithm for grouping customers of a retail store based on their purchase history. This clustering can provide valuable insights for personalized marketing strategies, customer targeting, and overall business decision-making. It uses the customers' annual income and spending score to create clusters and visualizes the results.

Hand Gesture Recognition

github : https://github.com/dkadian/Hand_gesture_recog .

Hand gesture recognition is a crucial component of human-computer interaction, providing a natural way for users to communicate with machines. This project aims to build a state-of-the-art deep learning model capable of recognizing different hand gestures in real-time, making it suitable for applications like sign language interpretation, virtual reality interfaces, gaming, and smart home controls.