PROJECT LIST

AKSHAT GARG

PAST PROJECTS:-

1) **MULTIPLE ORGAN CANCER DETECTION**:- Detecting different types of cancer for each organ using images of ct-scan etc.

   Project Tags:- Python, ML, EfficientNet, DNN, CNN, Flask

   LINK:- Project

1) **SPAM DETECTION SYSTEM**:- Multiclass classification on Big Data with different types of spam messages of a website using NLP and Big data.

   Project Tags:- Python, ML, XGBoost, NLP, Tokenization, Word Embedding

   LINK:- Project

2) **FASTEST BUZZER FIRST**:- This is a buzzer game. The one who presses the buzzer first gets to answer the question. The person to score 5 points the fastest wins the game. Socket programming in python is used.

   Project Tags:- Python, Socket Programming

   LINK:- Project

3) **IMAGE EDITOR**:- This takes an image file as input and it provides various features like converting into grayscale , changing the brightness etc from scratch.

   Project Tags:- Python,Django.

   LINK:- Project

4) **REAL TIME CHAT APPLICATION**:- This is a real time chat application that uses node js and enables you to send messages and receive messages. Any number of users can connect on this application. It uses socket.io library in java.

   Project Tags:- Java, Socket.io

   LINK:- Project

5) **TELEPHONE DIRECTORY**:- Construction of telephone directory with all normal directory features like add, delete search etc. It also allows to partial search of a particular contact based on different fields. It is completely implemented in C.

   Project Tags:- C, Algorithms

   LINK:- Project

6) **Residue Cache**:- A low-energy low-area L2 cache architecture via compression and partial hits.

   Project Tags:- Java

   LINK:- Project

7) **Converting a ppm image to grayscale image from scratch**

   Project Tags:- C++

   LINK:- Project

8) **HIGHWAY SYSTEM**:- A UI based highway system with trucks traveling on each road and each road has a different capacity.

   Project Tags:- Java, OOP, Swing

   LINK:- Project

ONGOING PROJECTS:-

1) TIME SERIES FORECASTING USING DNN AND TRANSFORMERS

   •Develop and compare forecasting models for stock-data forecasting.

   •Working on state-of-the-art Temporal Fusion Transformer

   • Applying the learnings on Ubiquant Market Prediction Kaggle competition.

   • Using Nifty 50 stock dataset as the alternate dataset, since Ubiquant Market Prediction dataset is anonymized

2) Extending the multi organ cancer detection with organ donation system, chatbots and many other features.
3) Transparency for consumers buying clothes using AI for sustainability development.
4) Movie recommendation system using turi-create.