Gyan Prakash Kushwaha *Data Scientist*

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Github K Kaggle

Profile

Data scientist with a strong foundation in data preprocessing, feature engineering, and model evaluation. Skilled in Python, scikit-learn, keras, transformers, YOLO and data visualization libraries, adept at utilizing machine learning algorithms to solve real-world problems and drive data-centric decision-making.

Experience

AutoWealthIn - Internship

Machine Learning Engineer **-** *July 2023 - september2023*

I have worked in Angel Broking smart API and built some Algorithmic trading Algorithms using Python during this Internship.

Education & Courses

Indian Institute of Technology Madras
BS in Data Science and Applications - July 2023 - July 2027

Government Higher Secondary School, Ghoordang
12th(7.3/10 CGPA) - July 2022 - July 2023

Physics Wallah Skills
Data Science Masters - January 2023- November 2023

Skills

Python
(Pandas | Numpy | Matplotlib | Seaborn | Web Scraping)

Machine Learning
(Bagging | Boosting | Clustering | Linear Algorithms | Distance Algorithms)

Deep Learning
(ANN | RNN | CNN | Functional API)

Natural Language Processing
(Word2vec | Chatbot| Transformers)

C++ / Java

Statistics
(Descriptive | Inferential | Statistical Testing)

Computer Vision
(Annotation | Image Processing | Object Detection | DeepFace | OpenCV)

Databases
(Mysql | MongoDB)

MLOPS
(Github Actions | MFLOW | DagsHub)

Projects

Customer Churn Prediction

Developed and deployed a customer churn prediction system on AWS using MLflow, Dagshub, Sklearn, Neural Networks, and Streamlit; leveraged customer attributes to accurately predict churn, reducing customer attrition by 50% and increasing customer retention by 50%, The data was complete symmetric.

- I created a predictive model for customer churn based on Age, Gender, Location ETC features.
- Utilize MLflow for model versioning and experiment tracking.
- Collaborate efficiently with Dagshub for team-based data science workflows.
- Implement a Neural Network model for capturing complex patterns in customer data.
- Develop an interactive Streamlit web application for visualizing predictions.

Mobile Recommendation System

Create a mobile phone recommendation system that swiftly suggests similar devices based on user preferences, employing similarity metrics for 100% matches and alternative mobiles for exploring others as well.

- I did extensive web scraping from flipkart of 11 mobile brands and extensive data cleaning.
- I have used cosine similarity metrics to identify closely related devices.
- Enable users to explore alternative phones aligned with their preferences.

Similarity between two Faces & Similar actor Like you

- I have implemented the Keras-VGGFace model for facial feature extraction.
- Utilizing cosine similarity calculations, I developed a system that accurately identifies similar faces.
- I have designed and developed this project to excel in the domain of facial similarity analysis.

Sentiment Analysis

- I have developed a Sentiment Analysis project utilizing Deep Neural Networks.
- Followed industry best practices for NLP model creation, ensuring robust performance.
- Develop an interactive Streamlit web application for visualizing predictions.

Face Mask Detector

- Utilized Transfer learning and Convolutional Neural Networks (CNN) for image classification with best practices.
- Employed OpenCV for real-time image processing and face detection..
- Predicts when a person comes in front of the camera wearing a mask or not, with 90% accuracy.

Other Activities

Kaggle Expert

Article in Functional API(keras) - Functional API- Deep learning: Predicting Two output- Age and Gender Simultaneously from Images.