**Gyan Prakash Kushwaha** *Data Scientist*

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# 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++ / JavaStatistics

(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.](https://medium.com/@gyanp7880/the-power-of-functional-api-deep-learning-predicting-two-output-age-and-gender-simultaneously-371f1c5b181e)