

MOHAMMAD AUSAF

Machine Learning Practitioner

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[Linkedin](#) | [GitHub](#)

EDUCATION

KIET Group Of Institutions

B.Tech Computer Science

Percentage: 75%

Ghaziabad

2020 - 2024

Army Public School

Higher Secondary Physics, Chemistry and Mathematics

Percentage: 86.8%

Prayagraj

2017 - 2019

SKILLS

Programming Languages: C, C++, Python

Libraries/Frameworks: NumPy, Pandas, Matplotlib, Scikit learn, PyTorch, OpenCV

Tools / Platforms: VS Code, Kaggle, Jupyter, Google Colab, Git/Git-Hub

PROJECTS / OPEN-SOURCE

Exercise Rep Counter - Timer *OpenCV, Media Pipe Pose Prediction, PyCut Scene, Media Processing*

- The project is to *count the reps done* by the subject, once given what body parts to track.
- This is done with the use of *Media Pipes's pose detection system*.
- After obtaining the coordinates of the interested parts, the model uses the coordinates to calculate the angle between them (body parts).
- Depending on the threshold the model starts the hold timer and eventually a recount is registered once the timer exhausts.
- The Model is also *capable of filtering any real-time fluctuations in the video feed/input, this is done by using the PyScene package*.

Machine Learning Model for Prediction of Medicinal Herbs | [Link](#) *Google colab Computing Engine, Python, PyTorch, Data Preprocessing, pandas and Matplotlib.*

- The Project aims to solve the problem of identification of medicinal herbs.
- *The Machine Learning Model uses ResNet, a type of CNN with a validation accuracy of 96%.*
- The training and testing dataset contains over 1500 images across 50 medicinal herb species.
- The model is capable of classifying the user-given image into 30 species.

Sales Forecasting with Walmart Dataset *NumPy, Pandas, and Matplotlib for Data Analysis and Data Visualization respectively. Sk Learn for Model Creation.*

Used a variety of data modelling and visualization methods to analyse thus providing insights into Walmart sales dataset. Predicted future sales in selected outlets with the help of a machine learning model.

CERTIFICATIONS

- Python Programming for Everybody - **Coursera**
- Algorithmic Toolbox - **Coursera**
- Python Basics for Data Analysis - **IBM Skills Build**
- Object-Oriented Data Structures in C++ - **Coursera**

HONORS & AWARDS

Participated in Adobe Analytics Challenge 2022

Participated as Departmental Runner Up in college fest Innotech 2022