

# Mohammad Ausaf

linkedin.com/mohammad-ausaf  
github.com/AusafMo  
Bengaluru, Karnataka, India

Email: ausaf9911@gmail.com  
Contact: 91-7007388740  
Site : ausafmo.netlify.app

## EDUCATION

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- **KIET Group of Institution** Ghaziabad, India  
• *Bachelor of Technology - Computer Science* 2024  
*Courses: Probability and Statistics, Calculus, Operating Systems, Data Structures and Algorithms, Machine Learning, Databases*

## SKILLS SUMMARY

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- **Languages:** Python, C++, HTML, SQL
- **Frameworks:** FastAPI, Flask, Gradio, Beautiful-Soup, StreamLit
- **ML Packages:** CLIP (Semantic Search), Tensorflow, OpenCV, Langchain, Flowise, Keras
- **Platforms:** HuggingFace, GCP, OpenAI API, GIT-GitHub, Linux
- **(Vector)DBs:** PineCone, Weaviate, MongoDB, GCP Vertex AI
- **Soft Skills:** Academic & Research Writing

## EXPERIENCE

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- **Galleri5 - MLE Trainee - Link** Bengaluru  
*(Full-time)* Dec 2023 - Present
  - **CLIP Semantic Search:** Developed, and maintained a open-CLIP based Multi-modal tool for facilitating semantic search. Used Gradio for rapid prototyping and iterating as per changing requirements.
  - **Data Ingestion Pipelines:** Implemented Data Ingestion Pipelines, using client-APIs and Web-Scraping, thus, automating continuous data ingestion. Responsible for Migrating, Maintaining, and Data Cleaning in MongoDB.
  - **Embedding Pipelines:** Wrote and responsible for maintaining, continuous vector/embedding calculation and integration for Pinecone and Weaviate.
  - **API:** Wrote and maintained Fast-APIs for trends.galleri5 web-app retail tab, including data manipulation and cursory data analysis.**Tech-Stack :** Python, PyTorch, FastAPI, CLIP, Pinecone, MongoDB, Weaviate, GCP Vertex-AI platform, Gradio, OpenAI-API.

## PROJECTS

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- **AushadHub: ML-based Medicinal Herb Identification Platform - (Image Processing, Transfer Learning, Google Cloud) - [Link]:**
  - Developed a Medicinal Herb Identification Platform leveraging ResNET50, achieving a testing accuracy of 98% for classification tasks across 30 labels
  - Implemented preprocessing techniques to optimize images before model inference, for efficient and accurate identification of medicinal herbs.
  - Deployed a Flask application as the backend on Google Cloud, serving as an inference endpoint for image uploads.
  - Created a user-friendly interface using HTML, CSS and JavaScript allowing users to upload images for plant identification.
  - Added functionality to display comprehensive descriptions of the predicted plant species, enhancing user experience and understanding.**Tech :** Python, PyTorch & Tensorflow, Keras, Flask, HTML, CSS, GCP
- **Exercise Monitoring System: Computer Vision based Exercise Monitor and Counter - (Image Processing, Computer Vision) - [Link] :**
  - Developed a Python-based exercise monitoring system leveraging OpenCV, Mediapipe, and Scenedetect for real-time video analysis, including frame filtering to eliminate frame fluctuations.
  - Utilized Mediapipe's pose estimation to track key body landmarks, particularly knee and elbow positions during exercises, ensuring precise angle calculations.
  - Created an interactive system offering real-time feedback on exercise performance and repetition counting, incorporating frame filtering.**Tech :** Python, OpenCV, PyScene-Detect, Numpy

## MOOC(S) & CERTIFICATIONS

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- Data Science and Machine Learning Bootcamp - A-to-Z Mastery (Udemy)
- Object Oriented Data Structures in C++ - University of Illinois at Urbana-Champaign (Coursera)
- Algorithmic Toolbox - University of Michigan (Coursera)

## CO-CURRICULAR

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- **Core Team Member, ISTE (Indian Society for Technical Education):**
  - contributed to organizing events for the ISTE KIET chapter within college like Quizzes, Poster Competitions etc.
- **Competitive E-Sports:**
  - Regularly competed in game, as well as in-real-life events in competitive capacity.