

Mohammad Ausaf

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EDUCATION

- 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
- Army Public School** Allahabad, India
Higher Secondary Certificate (HSC) - Physical Sciences and Mathematics 2019
Courses: Physics, Chemistry, Mathematics

SKILLS SUMMARY

- Languages:** Python, C++, HTML, SQL
- Frameworks:** Sci-Kit, Tensorflow, OpenCV, Keras, Flask, Beautiful-Soup
- Tools:** GIT-GitHub, HuggingFace, VS-Code, Kaggle
- Platforms:** Windows, GCP (Vertex AI Beginner), OpenAI API
- Soft Skills:** Academic & Research Writing, Teamwork, Event Managment

PROJECTS

- 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, ensuring efficient and accurate identification of medicinal herbs.
 - Deployed a Flask application as the backend system 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
- Sentiment Analysis Project: Performing Sentiment analysis on Web-Articles - (Web Scraping, Natural Language Processing (NLP)) - [Link]:**
 - Conducted a sentiment analysis project utilizing Python and various libraries including BeautifulSoup, Pandas, and NLTK.
 - Extracted article content and titles from diverse web pages using web scraping techniques, handling inconsistencies in HTML structures and data extraction.
 - Used Regular Expressions (Regex) for pattern matching and text manipulation tasks, enhancing data preprocessing capabilities.
 - Implemented sentiment analysis by scoring positive and negative words, calculating polarity, subjectivity, and linguistic metrics such as average sentence length and complex word count.
 - Tech :** Python, Beautiful Soup, NLTK, Regex, HTML

MOOC(S) & CERTIFICATIONS

- 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)

VOLUNTEER EXPERIENCE

- **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.