


MD SUHAIL AHMED

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<https://github.com/Sohail1173>



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Profile: I Passionate about Data Science & AI, having good object oriented programming skills, well versed knowledge of making full end-to-end Data Science pipeline from Data Gathering to Scalable deploying applications in various cloud platforms, having good analytical and problem solving skills.

Work Experience

- AI Engineer Intern**
- Algorithmia digitech pvt ltd: Apr 2023-July-2023**
- Collaborated with a team to develop the SmartBasket.ai mobile application.
- Contributed to the design and implementation of key features.
- During my internship at Algorithmia,I utilized web scraping techniques to collect data for over 2000 companies financial data from websites to develop a Large Language Model (LLM). named as FinGPT.
- Preprocessed and cleaned the collected data to ensure high-quality inputs for the model.
- Trained the LLM on a diverse dataset of company information, allowing it to generate relevant and contextually accurate text.
- Fine-tuned the model using custom langchain agents, optimizing its performance for specific business applications and use cases.
- TechnologyStack:Langchain,Elasticsearch,Pinecone,Chromadb**
- Beautifulsoup, Huggingface,Transformers,whisper ai.**

Computer Vision Intern

Happymonk.ai:Aug-2023- Dec-2023

- Collaborated with the HappyMonk team to collect and curate adiverse dataset of images for computer vision projects.
- Conducted meticulous image labeling, ensuring data quality and accuracy to support machine learning model training, Applied image enhancement techniques and effects to improve the dataset's quality and diversity.
- Played a crucial role in video collection efforts, focusing on capturing diverse video footage for **YOLO** model testing. Actively participated in model testing and evaluation using **YOLOv8**, contributing to the development of cutting-edge computer vision solutions.
- Training the **object detection, classification, and segmentation models** from scratch.
- Building models using **NVIDIA TAO toolkits**

Personal Project

Image Recommendation:

AIM: i build a web app in which user can search the desired item of image by putting their image.Then my **CNN & ML models** will find out the **5 similar images from my database**.which i prepared for this project.in which i collected 8k images of diffrent class of Animals items.

Tech Used:CNN,ResNet50,NearestNeighbour,Tensorflow.openCV, ,Image processing

<https://github.com/Sohail1173/Reverse-Image-Search>

Core Skills

Languages:
Python,SQL,Elasticsearch ,Object Oriented Programming

Deployment

Docker
Google Container Registry ,
Amazon Container Registry
TensorRT,Nvidia tao toolkit.

Tools

LabelStudio , Labeling , Lableme,
linux , Deepstream,Onnx,TensorRT.

Mathematics for ML & DL

Algebra,Probability,Statistics,Calculus,Matrices

Frameworks & Libraries

Tensorflow, Keras, Pytorch , Transformers , Simple
Transformers , Pandas, NumPy , SpaCy , NLTK , Matplotlib
, Seaborn,OpenCV,Ultralytics,BeautifulSoup,Langchain,
Huggingface , OpenAI,LLama,Falcon,Git , GitHub.

ML & DL Algorithms

| | |
|---------------|----------------------------|
| Random Forest | ANN , CNN ,RNNN |
| KNN | Vgg , ResNet , |
| Decision Tree | InceptionNet , |
| K-Means | EffecientNet |
| DB-Scan | SSD ,Yolo ,R-CNN,Mask-RCNN |
| | LSTM , GRU , GPT2 , |
| | BART , Albert |
| | ,DistilBERT |

Education

M.sc Mathematics: 6 . 5

BCU , Bangalore
2020 - 2022

B.sc Mathematics: 72%

Gulbarga University
2017- 2020

12th Board: 78%

Crescent PU College.
2015 - 2017

Language

English
French
Hindi
Urdu
Kannada

Interest

Cricket
Photography
Cooking