Mansee Agrawal

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Summary

Having 3+ years of experience as a Machine Learning Engineer with robust problem-solving skills and proven experience in creating and designing software with Deep Learning, Natural Language Processing, Python, Flask.

Education

Technocrats Institute of Technology Excellence ***Bhopal, Madhya Pradesh***
Master of Engineering in Artificial Intelligence and Machine Learning *2020-2022*
Jabalpur Engineering College ***Jabalpur, Madhya Pradesh***
Bachelor of Engineering in Computer Science *2016-2020*

Experience

Justdial **Bangalore**
Machine Learning Engineer *05/2022 - present*

- Good Experience on Deep Learning, Computer Vision, Natural Language Processing, LLMs, Transformers, Pytorch.
- Worked on kafka, rabbitMQ, vector database (milvus, weaviate), Docker, AWS, Model Deployment.
- Trained and finetuned object detection, image classification (CNN, Resnet50, EfficientNetV2, Vision Transformer, Swin Transformer), PaddleOCR, text feature extraction models, LLMs (Transformers, BERT, GPT, Llama), and used it for various downstream tasks like text classification, NER, question answering, Natural Language Inference model, text generation.

Kloudspot ***Bangalore***
Machine Learning Engineer *10/2020 - 05/2022*

- Worked on Computer Vision, Deep Learning, image processing, video streaming.
- Trained and finetuned object detection (YOLO, SSD), classification model (CNN, Resnet50, EfficientNetV2, MobileNetV2), Auto-encoder model for various use cases.
- Good experience in python libraries Keras, TensorFlow, PyTorch, Flask, FastAPI, DLStreamer, Gstreamer, RTSP.
- Worked on model conversion to openvino, tensorRT, TFLite and integrated the converted models to the back-end code for CPU and GPU Server.
- Experience in Python including data structures and algorithms.

Projects

Image classification and object detection, Auto Encoder (blur/clean, mask/nomask, age classifier, image orientation,

- I have trained and finetuned various image classification models (blur/clean, mask/nomask, age classifier, image orientation, blank image classifier) using CNN, Resnet50, EfficientNetV2, MobileNetV2, Vision Transformer, Swin Transformer.
- Build autoencoder model for face reconstruction.
- Used Python, Transformers, Keras, PyTorch, Flask, Fast API.

Image search engine based on image and text

- Built image search engine based on image and text. Finetuned CLIP model using transformers.
- Used milvus and weaviate for the vector database. Built API using Flask.

Natural Language Processing

- Done post processing like POS tagging, NER, sentiment analysis on text extracted from images using PaddleOCR and on raw text as well.
- Trained review summary generation model by finetuning the transformers LLM T5, LLM distilbert for question answering.
- Worked on Llama to generate the reviews.
- Trained PaddleOCR model, text classification model (distilbert) to classify reviews pros and cons, Natural Language Inference model to find out the contradictory statements from review pros and cons .

Technical Skills

Languages: Python
Technologies/Frameworks: Deep Learning, Natural Language Processing, Computer Vision, Flask, Fast API, Pytorch, Transformers, Keras, Tensorflow, Kafka, RabbitMQ, Docker, Git, AWS

ML/DL Techniques: CNN(Resnet50, EfficientNetV2) , Yolo, SSD, RNN(LSTM, GRU), Transformers(Bert, GPT, LLAMA, T5, NLI), Language models

Achievements

- Top Talent for FY 20-21 based on Annual Performance Rating.
- Winner of Smart India Hackathon 2019 and 2020.
- Gate Qualified 2020.

Interests

- Dancing
- Badminton
- travelling