RAHUL PRAJAPATI Machine Learning Engineer

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SKILLS

- Machine Learning, Deep Learning, NLP, Python, Stats and Probability, Linear Algebra, Data Analysis, Data Visualization, Fast-API, Computer Vision, SQL, LLM, Langchain

EXPERIENCE

Machine Learning Engineer   Dec 2022 - Present
CRMNEXT

Social Service:
- Developed social service for get user information and post relavent information by using different social media platform using there api's like Facebook, Twitter, Youtube and LinkedIn this whole service implemented using **gRPC**.

NLU Service:
- Developed this microservice from spacy v2 to spacy v3 for NER and Sentiment Analysis, I have solve email data and there reviews with this service. Implemented **Transformer BERT pipeline** for **NER** and **Distilbert pipeline** for **sentiment**. implemented custom methods tagging for **IOB format** for our custom **NER** dataset. from the production dataset are not in the **IOB format.**

NewsFeed Service:
- Implemented **zero-short huggingface pipeline** with the help of **pretrained transformer model** for extracting entities from news come from contify-api.

Vkyc Service:
- Implemented **huggingface pipeline** for Adhara details extraction and Pan details extraction micro service I have try different pre-trained **Transformers** based **model** from **Hugging Face** for good results. implemented Face matching micro service using **Deep Face**. I have performed experiment different **Deep Face** models and there parameters for good results.

AI Based Micro Service:
- Implemented **minimized** the prediction time of various machine learning algorithms, before deploy our model to production will convet into model to **Onnx**. Create custome method to convert initial type of our features before convert machine learning model to **onnx**.

ReplySuggestion Micro Serivce:
- Implemented to give support for filipinos language support to chatbot service. collect data and make its custom intents, finetune pretrained **google muril model** by using hgging-face pipeline.

Machine Learning Engineer Intern   Jul 2022 - Nov 2022
athamas technologies pvt.ltd.

Invoice Processing
- Developed custom **spacy model** which extract custom **entities,** like Po-No, Invoice no price, total amount, tax related information and address of given dataset, dataset are different formats like **Image, PDF.** after implemented some image preprocessing by using **Normalization**, **Skew Correction, Image Scalling, Thresholding, Erosion, Dilation.** also implemented some text preprocessing using **regex, nltk** to improved model accuracy till 90%**.**

PROJECTS

Text Summarization
https://github.com/rahul6796/end-to-end-text-summarization
Developed **NLP project** text summarization by using **samuam** dataset during developed this end to end **project** I have used **huggingface pipeline** and their **Transformer** pretrained **model** for **fine-tune** on this given dataset. I have developed this **project** in different **components** like data ingestion, data validation, **transformation**, **training** and evaluation and also developed **docker** file for deployment.

Red Wine Quality
https://github.com/rahul6796/End-to-End-machine-learing-project-with-mlflow
Developed **ML Project** end to end by using **wine quality dataset** of csv format, during developed this **project** i have **implemented** different **components** like data ingestion, validation, transformation, training, evaluation and also developed **docker** file for deployment.

chicken Disease classification
https://github.com/rahul6796/chicken-disease-classification
Developed **Deep Learning project** using **chicken disease images** dataset, I have implemented end to end this **project** by using different components like **data ingestion**, prepare base model **(VGG16),** prepare callbacks,training and evaluation also **docker** file for deployment and also **implemented (DVC)** for tacking our **pipleines** .

EDUCATION

KIET GROUP OF INSTITUTIONS, GHAZIABAD   2021
B.Tech