Rishabh Mehra

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WORK EXPERIENCE

I3SYSTEMS.AI | NLP Engineer   Mumbai, In | Mar 2022 - May 2023

MOTOR INVOICE

- Spearheaded the implementation of **Text Classification** and **Table standardization** frameworks, resulting in a **50% reduction** in manual invoice processing time and a **40% increase in invoice processing accuracy**.
- Leveraged State-of-the-art NLP techniques by training a **Flair- NER** model to extract important meta entities from the invoices, such as **vendor names, invoice dates, GST number, chassis no, etc** with an **accuracy of 93%.**
- Drove business success through the strategic leadership of a successful motor invoice digitization project, resulting in the **attraction of 2 new clients** and a substantial **increase in revenue.**

FINANCIAL UNDERWRITING

- Trained **NER** models using multiple libraries & frameworks - **flairnlp**, **Spacy** & **CRF++** for **Bank Statements** , **Form16** & **Computation of Income (COI)** .
- Deployed an algorithm that **extracted salary data** from bank statements with **97 % accuracy**.

MEDICAL EXAMINATION REPORTS

- Trained a **regression model** to find data point coordinates, which improved **data extraction efficiency by 15%**.
- Trained a **Resnet-18** model to classify checkboxes, Signatures, and Stamps.

ENHANCEMENT

- Upgraded **Document and Image** classification models improving the **accuracy score by 5%** over the existing model.
- Customized an auto-learning framework for profile terms with range values **reducing compute time by 7 seconds** per case, and reducing manual **user intervention by 50 hours**.

LTI | Senior Software Developer   Navi Mumbai In | Aug 2019 – Feb 2022

- Gathered and defined customer requirements to attain clear specifications for project plans.
- Analyzed issues report to find problem areas and were able to **reduce ServiceNow Ticket count by 60 %** .

AGRIMA INFOTECH PVT LTD | Data Science Intern   Remote | Oct 2018 - Jan 2019

- Implemented **Spacy** named entity recognition (NER) to accurately identify and convert units, and employed a spellcheck model to ensure the **accuracy of 85%**.
- Boost the **Accuracy** of the existing unit conversion feature by **80%, providing a seamless experience to the end user.**

EDUCATION

B.E. IN INFORMATION TECHNOLOGY | Vidyalanakar Institute of Technology   Mumbai, In | May 2019

PERSONAL PROJECTS

BEST TWEETS FOR A QUERY ⬏   -

- It scrapes the tweets from Twitter in real-time and runs an algorithm over it to display the best tweets. It is implemented end-to-end and hosted on Heroku. Developed an algorithm to find the best tweets for a given **phrase/word** using NLP techniques like **word embedding, and sentence embedding.**

WAFER FAULT DETECTION ⬏   -

- To build a classification model to predict the quality of wafer sensors based on training data.
- Develop a pipeline to automate the training and prediction process it included data validation, file validation.
- Used clustering and classification models like **K Means, Random Forest and XGBoost** for each cluster

SKILLS

- **Development:** C, C++, Python, Flask, SQLite, bs4, scrapy, Microsoft Azure, AWS
- **DL/ML:** NLTK, SpaCy, Gensim, Transformers (Hugging Face), scikit-learn, Keras, TensorFlow, PyTorch, HF Optimum, CRF++, PyTorch, RNNLSTM, flairnlp, LLMs, Langchain, GPT-2, GPT-3, BERT, RoBERTa, T5, XLNet, T5, flairnlp, DiT, Prompt Engineering with GPTs