

Vitthal Bhandari

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Skills

Programming: Python, Java, C, JavaScript, Typescript, HTML, CSS, Oracle SQL

Development: React, MUI, Bootstrap, Flask, Elasticsearch, Jenkins, Solr, Git

ML Libraries: PyTorch, Tensorflow, Keras, NLTK, Scikit-learn, Pandas, Huggingface ecosystem

Experience

Standard Chartered Global Business Services | Bengaluru, India

July 2021 – Present

Data Science Analyst / DFT Data Science

- Led and developed an API management framework for creating configurable APIs which has been used by business teams to create 1300+ APIs to fetch/add/update data from Dremio and Oracle SQL data lakes
- Built reusable UI components and REST APIs for the inhouse conversational bot Maya which improved the flow, visualization and accessibility, hence enabling more revenue opportunities

PayPal | Bengaluru, India

Jan 2021 – July 2021

Software Development Intern

- Designed and built the first real-time metrics dashboard for PayPal's DropZone platform into production
- Above dashboard was used to analyze file transfer patterns, user demographics and user behavior
- Utilized React to render UI, SpringBoot for creating REST APIs, and Elasticsearch for indexing > 2 million file transfers/hour

Standard Chartered Global Business Services | Bengaluru, India

May 2020 – July 2020

Software Engineering Intern

- Implemented and hosted a search-cum-recommendation engine over a set of 100K+ records from Transaction Lifecycle Management system using React, Bootstrap, and Flask
- Leveraged Elasticsearch for indexing and REST APIs to enable the system to perform nested search queries in <2 seconds

Projects

Homophobia/Transphobia Detection in social media comments

Jan 2022 – March 2022

Research Assistant / Prof. Poonam Goyal / [Code](#) / [Paper](#)

Participated in the Shared Task on homophobia/transphobia detection in the second LT-EDI Workshop at ACL 2022

- Experimented with monolingual and multilingual LLMs for detecting homophobia/transphobia in YouTube comments
- Employed data augmentation techniques (Easy Data Augmentation) to tackle class imbalance and achieved ranks 3, 6, and 9 in code-mixed, Tamil, and English tracks with best macro-averaged F1 scores of 0.54, 0.72, and 0.462 respectively

Reviewing the collaborative role of Image processing in retinal imaging

March 2021 – July 2021

Research Assistant / Prof. Sundaresan Raman

- Compiled a review of fundus image processing techniques by performing literature review on 60+ papers
- Investigated advanced IP, ML and DL methods to diagnose common macular diseases including AMD and DR

Sentiment Analysis using self-trained word embeddings

Oct 2020 – Nov 2020

Term Project / Prof. Poonam Goyal / [Code](#)

The objective was to determine suitable vector representations and compare their performance against standard GloVe embeddings

- Implemented word2vec models - CBOW, Skip-Gram and Skip-Gram with negative sampling and trained custom word vectors on the Reuters Corpus from nltk with stochastic gradient descent without using any external libraries/frameworks
- Built a sentiment analysis model from scratch using an RNN on the IMDB movies review dataset using above embeddings

Multivariate Time Series (MVTs) Analytics

April 2020 – May 2020

Term Project / Prof. Navneet Goyal / [Code](#)

- Implemented Vector Auto Regression as an MVTs regression algorithm and employed it to predict future air quality index values based on past data using an air quality dataset
- Reproduced k-NN with dynamic time warping (DTW) for MVTs classification on the EEG Eye State dataset with 90% accuracy (k=5). For MVTs Clustering, implemented k-means + DTW to cluster similar companies in the S&P 500 index

Education

Birla Institute of Technology and Science Pilani | Pilani, India

July 2017 – July 2021

Bachelor of Engineering in Computer Science