Harsh Shah

Email | Linkedin | GitHub

Education

BITS Pilani Aug. 2017 – Present
Bachelor of Engineering in Electrical and Electronics, Master of Science in Economics *Pilani, Rajasthan*

Technical Skills

Languages: Python, C, C++, MySQL, Java
Developer Tools: Git, Docker, VS Code, Jupyter, PyCharm, Eclipse, Anaconda
Libraries and Frameworks: PyTorch, Pandas, NumPy, Keras, TensorFlow, NLTK, Transformers, Spacy, scikit-learn

Relevant Courses

Neural Networks and Fuzzy Logic, Object Oriented Programming, Operating Systems, Computer Programming, Probability and Statistics, Linear Algebra, Applied Econometrics, Derivatives and Risk Management

Experience

Head Teaching Assistant, Neural Networks and Fuzzy Logic January 2021 – May 2021
BITS Pilani *Pilani, Rajasthan*

- Conduct workshops to familiarise students with NumPy, Pandas, PyTorch and Tensorflow
- Design and evaluate Neural Networks based Python assignments to test their practical knowledge

Natural Language Processing Intern May 2020 – July 2020
FlexiEle *Gurgaon, Haryana*

- Developed a Resume information extractor using **NLTK** and **OpenCV** and stored data in JSON format
- Built and deployed a **RASA** based chatbot for tasks like leave management and stress assesment
- Secured the chatbot with a custom HTTP input channel having JWT authentication to allow authorized access

Data Science Intern May 2019 – July 2019
Belief Systems *Chennai, Tamil Nadu*

- Wrote python scripts to scrape data using BeautifulSoup and Selenium to create database for offline use
- Cleaned and visualized client data using dashboards in Power BI to deliver actionable insights
- Built a people counter app using OpenCV to keep track of people inside the shop using video from CCTV

Projects

ML for Option Pricing | *Python, Keras, Pandas, NumPy* | GitHub Link Jan. 2021 – Present

- Explore the effectiveness of different Neural Network architectures for the task of Option Pricing
- Compare the results of ML based techniques with traditional models like the Black-Scholes and the Heston model

Attention based LSTM | *Python, PyTorch, NumPy* | GitHub Link Nov. 2020 – Dec. 2020

- Implemented the paper *Attention-based LSTM for Aspect-level sentiment classification* on SemEval 2014 dataset
- Reproduced the results from the paper and additionally visualized attention weights for different aspects

YouTubeNLP | *Python, Docker, Flask, Gensim, Transformers* | GitHub Link May 2020 – Oct. 2020

- Worked on a web application which provided insights about comments and transcript of YouTube videos
- Used different transformer based models like **BERT** and **GPT** for tasks like NER and Emotion Analysis

Fashion Intelligence System | *Python, PyTorch, React* | GitHub Link July 2020 – Aug. 2020

- Developed a Fashion Intelligence System which scrapes and ranks products from e-commerce websites
- Products were ranked based on similarity between image embeddings of scraped and trending products
- Code was written in a modular format to facilitate scaling across new products and websites

Competitions

Flipkart GRiD 2.0 July 2020
Finished in the Top 1.2 percentile out of 22,000+ participants in a Software Development competition