Himanshu Jain

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Experience

Cisco Systems India Pvt Ltd **Jan 2022 – July 2022**
Software Engineer Intern *Bangalore, India*

- Working in **Webex Contact Center** team that aims to build a future of customer experience with Intelligent Contact Center solution.
- Performed **load testing** and **benchmarking** of core service that makes use of **Websockets** and **Kafka producer**.
- Integrated **JMeter** into the main pipeline to determine the behaviour of system under test and reported the profiling data to the team to improve performance, reliability and scalability of the service.
- Tech stack consists of **Java**, **Scala**, **Gatling**, **JMeter**, **Jenkins**, **Kubernetes**, **REST APIs**.

Wipro Limited **May 2021 – August 2021**
Software Engineer Intern *Bangalore, India*

- Worked in domains of **data analytics** and **NLP** to extract useful insights from the data. Tasks such as Text Preprocessing, Word Frequency Analysis, N-Gram Analysis and Data Visualization was done.
- **Text mining tasks** on Email dump and phone call records of client's internal data was performed. The clients were associated with **airlines industry**.
- Tech stack consists of **Python**, **spaCy**, **Matplotlib**, **Plotly** and **Anaconda**.

Education

PES University **August 2018 – May 2022**
B.Tech in Computer Science; CGPA : 9.63 *Bangalore, India*

- **Specialization** in Machine Intelligence and Data Science
- **Relevant Coursework**: Data Structures, Algorithms, Databases, Computer Networks, Machine Learning, Big Data, Cloud Computing

Technical Skills

Languages: Java, Python, SQL
Developer Tools: Jenkins, Docker, Android Studio, AWS
Technologies/Frameworks: Linux, Git, Tensorflow, OpenCV, Kubernetes

Publications

TapasQA | *Computer Vision, Natural Language Processing* | Paper Code **January 2022**

- The paper is accepted in the **Third International Conference on Image Processing and Capsule Networks** (ICIPCN-2022).
- Developed a **Question Answering system** for statistical plots using Google TAble PArSing (TAPAS) algorithm.
- We have built a state-of-the-art model that helps us address **open-ended questions** and **Yes/No binary questions**.
- The results are better as compared to the PlotQA model, which is the original model developed for the dataset.

MAPLE | *Python, Tensorflow, GPU* | Paper Code **November 2021**

- MAPLE stands for MAsking words to generate blackout Poetry using sequence-to-sequence LEarning.
- The paper is accepted and published in the **Fourth International Conference on Natural Language and Speech Processing** (ICNLSP 2021), Taranto, Italy.
- This research proposed a novel approach to generate **blackout poetry** using deep learning methods.
- Encoder-decoder architectures like **Bi-LSTM-CRF**, **BERT** and **RoBERTa** were used to generate the results.
- Perplexity Scores and Turing Test is used to evaluate the quality of poems obtained.

Projects

Brevis | *React, Redux, Selenium, Flask* | Demo Code **November 2021**

- Brevis is a web application to generate structured notes for any lecture video.
- Web scraping was done to extract similar resources related to the video.
- Worked as a backend developer for the project and tested the end-to-end development of the product.

Serve Android App | *React, Redux, Selenium, Flask* | Demo Code **March 2020**

- Automates the process of food ordering at a canteen.
- Android studio with JAVA is used to develop the application.
- Integrated with Firebase to see real-time updates.