Kushagra Seth

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Education

University of California Santa Cruz (UCSC)

Santa Cruz, California Sept 2022 - Dec 2023*

Masters of Science (MS), Natural Language Processing (NLP)

• Tutor/Reader: CSE13S(Computer Systems and C Programming)

• Courses: Introduction to NLP, Deep Learning for NLP, Transformers, Machine Translation

Guru Gobind Singh Indraprastha University (GGSIPU)

Delhi, India

Aug 2015 - July 2019

BTech in Information Technology (IT)

• Courses: C, Java, Python, Artificial Intelligence, Data Structures, DBMS, Operating Systems

Technical Skills_

Programming Python, C, C++, Scala, Java, JavaScript, React, SQL, Bash, Selenium (Java/Test-NG), Karate.

Libraries PyTorch, Transformers, Datasets, Evaluate, Keras, Scikit-Learn, HuggingFace, Pandas, NumPy, NLTK, SpaCy, Matplotlib, Seaborn, Re.

Miscellaneous Docker, Git, Jenkins, JIRA, Data Science, Machine Learning(ML), Deep Learning, Natural Language Processing(NLP), Artificial Intelligence(Al).

Work Experience_

Software Engineer (Machine Learning)

Gurugram, India

Cvent

June 2019 - July 2022

- Built the product **Lead Score and Engagement**. It required a multi-step design and integration with partner systems like Salesforce and Marketo using a mesh of microservices.
- Developed a Content-Based Recommendation System for the Cvent Platform to make session recommendations for event attendees.
- Led and implemented a project on a Deep learning-based **Sentiment Detection system** for Session and Exhibitor Reviews for the Cvent Platform using LSTM in PyTorch.
- Led a project on creating and maintaining fully automated CI/CD infrastructure using Jenkins for multiple production environments. It reduced the end-to-end deployment time by more than 50%.

Data Science Intern Gurugram, India

SS Supply Chain (3SC) Solutions

June 2018 - July 2018

- Designed and built a front-end dashboard for different Vendors and Retailers.
- Developed Deep learning **Regression** models using Keras for the delivery date and freight cost prediction.
- · Implemented and compared the performance of Seq-to-Seq Models, namely RNN, LSTM, and GRU, on historical Vendor and Retailer data

Data Science Intern Gurugram, India

Team Computers

June 2017 - July 2017

- Cleaned, filtered, and merged datasets for the past year and calculated Turn Around Time (TAT) for each contracted inquiry from the merged dataset.
- Developed a Regression Model based on the contracted inquiries and the vehicles delivered to predict Inquiries for next year and generated a cumulative dataset, i.e., the predicted number of vehicles Honda dealers will sell based on outstanding inquiries.
- $\bullet \ \ \text{Trained Regression Models using } \textbf{Logistic Regression}, \textbf{Decision Trees}, \textbf{KNN}, \textbf{and SVM}.$

Publications

CLIMATE CHANGE STANCE CLASSIFICATION using Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN), RNN-LSTM & CNN-LSTM Kushagra Seth, S Sahil Patwal, Amita Misra, Amita Goel

JETIR 6.5 (2019) pp. 35–46. 2019

Project Work

IOB Slot Tagging of Natural Language Utterances

University of California Santa Cruz (UCSC)

- Developed a Deep learning model using Glove Embeddings and LSTM using PyTorch to tag IOB slots in natural language utterances.
- Improved performance using **Bi-LSTM** and using variations of Adam optimizer like AdamW and Adamax. Achieved an **F1 score** of **0.81** on the test dataset.

Cross-Lingual Projection using T5 and Fine-Tuning for SNLI using DistilCamemBERT

University of California Santa Cruz (UCSC)

- Implemented cross-lingual projection of the SNLI dataset from English to French using transformer-based **T5** model.
- Performed **fine-tuning** on the French dataset using state-of-the-art transformer-based **DistilCamemBERT** model from HuggingFace to improve the performance of the SNLI task. Achieved an **F1 score** of **0.87** on the test dataset.

Multi-Evidence Natural Language Inference(NLI) for Clinical Trial Data

University of California Santa Cruz (UCSC)

- Developed and implemented a **Classification** Model to predict labels for Premise-Hypothesis pairs of clinical data using Transformer models **BERT** and **deBERTa** using HuggingFace and PyTorch.
- Achieved an F1 score of 0.71 on the test dataset.