Akshit Gandhi

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Experience

Candela Medical Jun. 2022 – Sep. 2022

Data Science Intern *Marlborough, MA*

- Generated visuals of various trends of revenue growth in time series sales data using Tableau
- Identified 20+ key factors driving revenue growth of installed bases in Australia and Japan
- Built predictive models to forecast revenue by applying algorithms such as Random Forest Regressor and LSTM
- Reduced potential loss of over $6M by forecasting a decline in sales specific to Japanese clients

Samsung Research Dec. 2020 – May 2021

Machine Learning Research Intern *Bangalore, India*

- Led a team of 5 researchers to build a solution for detecting emotions based on the user's speech input
- Implemented 3+ sound data augmentation techniques which improved performance by 6% with noisy data
- Devised a fusion-based CNN-LSTM architecture to extract emotions from speech input with an accuracy of 78%
- Optimized model size on the testing device and limited it to under 4MB of space
- Awarded Certificate of Excellence to appreciate my strong leadership, sound character, and passion for innovation

National University of Singapore Jan. 2020 – Mar. 2020

Data Science Intern *Singapore*

- One of the top 100 selected from a highly competitive pool of 4250+ applicants for a global academic internship
- Designed a Deep Learning solution that uses a Bidirectional LSTM method-based approach to detect and classify texts as offensive into 6 categories: racist, sexist, toxic, abusive, obscene, and neutral
- Optimized model performance and achieved an overall accuracy of 92% in real-time testing
- Awarded BEST PROJECT among all other teams by the professors of NUS

Hewlett Packard Enterprise Dec. 2019 – Jan. 2020

Applied Data Science Intern *Singapore*

- Explored and practically implemented various concepts revolving around Deep Learning, such as Data Scraping, Data preprocessing, Data Augmentation, Transfer Learning, Optimization, and Hyper-parameter Tuning
- Developed 5+ deep learning models using ANNs, CNNs, LSTMs, and GANs and further trained them on different renowned data sets using TensorFlow and Keras

Education

New York University May 2023

Master of Science in Computer Science, GPA: 3.56 *New York, NY*

SRM Institute of Science and Technology May 2021

Bachelor of Technology in Computer Science, GPA: 3.51 *Chennai, India*

Academic Projects

ReSieve - A Safer Community Forum Platform May 2022

- Developed a community forum platform providing intelligent moderation for text and image content posted on it effectively using AWS components

Auditing BERT-Based Toxicity Detector April 2022

- Analyzed the fairness of the BERT-based model that is used to predict toxicity in text data using custom-built metrics and SHAP

Music Recommendation System May 2020

- Designed a custom Convolution Neural Network for classifying input music files into 8 different genres and subsequently recommending similar songs from the database

Technical Skills

Programming Languages: Python, Java, SQL, C++, C, HTML, CSS, JavaScript

Frameworks and tools: Keras, TensorFlow, Amazon Web Services (AWS), Tableau, Apache Spark, Scala, Hadoop, MongoDB, D3.js, Streamlit, Scikit-Learn, Matplotlib, Pandas, NumPy, AngularJS, Git, MS Excel