Jinesh Shailesh Mehta

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EDUCATION

Master of Science, Computer Science **Sept 2021 - May 2023**

- Northeastern University, Boston, Massachusetts, USA
- Coursework: Natural Language Processing, Web Development, Algorithms, Design Patterns **GPA - 3.92 / 4.0**

Bachelor of Technology, Computer and Communication Engineering **Aug 2013 - June 2017**

- Manipal University, Manipal, Karnataka, India
- Coursework: Machine Learning, Artificial Intelligence, Information Retrieval **GPA - 8.4 / 10.0**

SKILLS

Programming Language:	Python, C++, Java, SQL, LaTeX
Frameworks & Libraries:	Keras, TensorFlow, AWS
Research Areas:	Natural Language Processing, Reinforcement Learning & Recommendation Systems

WORK EXPERIENCE

Machine Learning Eng. Co-op, Schneider Electric, Boston, Massachusetts **July 2022 - Ongoing**

- Developed Deep-RL-based models for recommending databases to end-users using previous user interactions.
- Enhanced performance for Deep-RL-based models using Actor-Critic Framework & Online Reward Simulator.
- Architectured an end-to-end CICD pipeline for SE Intel Database Recommendation System.
- Incorporated AWS services like S3, ECR, Lambda, Sagemaker, StepFunctions, EventBridge & CodeBuild to provide robust & seamless deployments.

Software Engineer II, Honeywell, Bengaluru, India **Oct 2019 - July 2021**

- Build contextual AI Chatbots to help new employees get onboard using RASA Framework.
- Architectured an engine maintenance tool used by TFE & HTF7K engines using Python, MySQL, and Qt Framework.
- Generated a total revenue of approx. $200,000 when deployed engine maintenance tool & chatbots to end-users.
- Led two teams which included understanding system requirements from clients & providing data gathering and simulation tools used for turbine design and performance analysis.

Software Engineer, Honeywell, Bengaluru, India **July 2017 - Sept 2019**

- Designed and implemented four analytical tools that aided in analyzing and optimizing engine performance.
- Created end-to-end deployment pipeline for all four projects using C++, Bitbucket, and Qt Framework.
- Generated a total annual productivity savings of $600,000 and reduced overall development cycle time by 20%.

RESEARCH & PUBLICATIONS

HyperCube based Accelerated DBSCAN, NeurIPS Workshop, Vancouver **Dec 2019**

Face Detection and Tagging using Deep Learning, ICCCSP, Chennai **Feb 2018**

PROJECTS

Netflix Model Movie Clustering and Classification [Python, Keras, Tensorflow, NTLK]

- Preprocessed the netflix movie data with NTLK module. Next, I trained a variety of Deep Learning model for clustering movies and classifying them based on generated label. Used LSTM and BERT for model training.
- Got a F1-Score of 0.97 using KMeans model for clustering and Pre-trained BERT and BiLSTM model for classification.

Sarcasm Detection from News Headlines [Python, TensorFlow, NLTK]

- Trained various models, namely CNN+SVM, CNN+LSTM+SVM, and pre-trained BERT-based models on Kaggle's News Headlines Dataset.
- Acquired the maximum accuracy of 98% with the pre-trained BERT model and an F1-Score of 0.96.

Evaluating Different Hyperparameters for Hate Speech Classification [Python, Keras, TensorFlow]

- Proposed a Bi-LSTM sequential model consisting of multiple dense layers with numerous nodes, using a ReLU activation function. L2 regularization was used to handle class imbalance.
- Evaluated combinations of hyper-parameters (primarily used Learning Rate, Nodes per BiLSTM layer, Number of BiLSTM layers, and Dropout after BiLSTM layers) to acquire the best model with an F1-Score of 0.84.