

YASHASVI JARIWALA

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EDUCATION

Northeastern University | Boston, MA

Sep. 2017 — Aug. 2019

Master of Science in Computer Systems Engineering (GPA: 3.6)

Related Coursework: Big Data Systems & Intelligence Analysis, Advance Data Science & Architecture, Database Management & Database Design

Gujarat Technological University | Gujarat, India

Jul. 2013 — May 2017

Bachelor of Engineering in Information Technology (GPA: 3.5)

TECHNICAL SKILLS

Data Science Concepts: Predictive Modeling, Machine Learning Algorithms, Data Mining and Visualization Tools, Decision Analytics, Research and Development, Report and Forecasts, Probability and Statistics

Frameworks/Libraries: TensorFlow, NumPy, Pandas, Spark, AWS, OpenCV, SpaCy, TextBlob, NLTK

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

Certifications: Machine Learning by Stanford University

WORK EXPERIENCE

Product Software Engineer, Machine Learning Co-op | ERT

Jan. 2019 — Present

- Pulmonologists have to manually analyze thousands of flow-volume spirometry loops every month
- Automated the identification of valid loops by developing a convolutional neural network architecture on top of fine-tuned InceptionResNetv2 model with GPUs using TensorFlow in Python
- Attained an accuracy of up to 92.4% on test data which is supposed to give quick and better results over manual inspection by doctors
- Reduced data size by 94%, utilizing advanced querying with pandas and SQL, visualization with Matplotlib and analysis with Tableau
- Developed and debugged production level API in Java for ERT support systems to fetch roles of users from database using tools such as Postman, AccuRev and followed agile software development approach

RELEVANT ACADEMIC PROJECTS

Bahubhashi - The Speech Translator

Nov. 2018 — Dec. 2018

- Designed a complex network of 22 layers in Keras to convert speech commands in English to text with 94.5% accuracy
- Built an auto-encoder/decoder model involving four bi-directional RNNs and LSTM layers to convert text from English to German with a BLEU score of 0.6

Image Style Transfer

Jul. 2018 — Aug. 2018

- Generated an amalgamated image with one styling template and content image utilizing pre-trained VGG-19 image dataset and dependencies such as TensorFlow, NumPy, SciPy, Pillow
- Tuned numerous hyper parameters, model architecture and calculated styling and content losses to scrutinized model performance

Diabetes Prediction

Sep. 2018 — Oct. 2018

- Predicting a possibility of a person diagnosed with diabetes based on statistics recorded
- Achieved a maximum accuracy of 92.5% by cross-validating and running predictions for diverse supervised machine learning models such as GLMs, GBMs, deep learning and stacked ensembles
- Used feature extraction to find out which features affect the possibility of diabetes