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# EDUCATION

**Northeastern University,** Boston, MA Anticipated Grad date: **May 2021**

*Master of Science in Information Systems* GPA: 3.8 / 4.0

**Teaching Assistant**: Programming (Spring 2020, Fall 2020)

**Coursework**: Deep Learning, NLP, Analysis of Algorithms, Software Engineering, Info Storage and Retrieval

**University B,** City, State **Aug 2010 – May 2014**

*Bachelor of Technology in Computer Science and Engineering* GPA: 8.27 / 10

# EXPERIENCE

**Company A,** City, State**Jan 2020 – Present**

*Graduate Student Researcher (under Prof. John Smith)*

* Formulated an **AutoML** pipeline to automatically search for a best neural model for Natural Language Processing tasks
* Constructed Knowledge graphs based on relations extracted from COVID-19 Open Research Dataset (CORD-19)

**Company B,** City, State**May 2020 – Aug 2020**

*Data Science Research Intern*

* Productized a fully automated end-to-end framework in **Python** using **OpenCV** and **Amazon Rekognition** to detect axes with an accuracy of 80%, plot labels, legends and to finally extract data from plots in scientific research papers
* Classified charts from research papers using VGG Neural Networks in **Keras** with an accuracy of 84% across 13 categories

**Company C,** City, State**May 2014 – Apr 2020**

*Software Engineer*

* Facilitated software design in **C** and **C++**, development of innovative algorithms, debug, and maintenance of proprietary software CnE (Connectivity Engine) for intelligent switchover between 3G/4G and Wi-Fi without any user intervention
* Accomplished various IMS critical value-add features (G2L Tuneaway, Dual VoLTE) for Qualcomm chipsets
* Awarded 5+ Qualstars, Orion Insta award in appreciation of outstanding contributions to Android Connectivity domain

# ACADEMIC PROJECTS

**Open Source Contributions:** scrapy (GitHub), tensorflow (GitHub), scipy (GitHub), scikit-image (GitHub), gensim [(](https://github.com/RaRe-Technologies/gensim/pull/2869)GitHub)

## Project Name 1 (Skills: Python, Java, Flume, Kafka, Spark, Flask) April 2020

* Created a production-ready end-to-end system for real-time data analytics on COVID-19 by pipelining Twitter Stream with Flume, Kafka using Spark Streaming. Deployed system on AWS with dashboards designed and displayed using Py Flask

**Project Name 2** | *Data Science Competition* **April 2020**

* Developed Linear, Lasso, Ridge and Bagged Linear regression models to predict flight delays for 3rd and 4th Quarters of 2019. Presented 2018 flight delay data visually through dashboards using leaflet in R

## Project Name 3 (Skills: Python, Keras) Oct – Dec 2019

* Implemented neural network regression and classification approaches using an architecture inspired by U-Net in Keras to convert grayscale images to colorized RGB images with an accuracy of 70

## Project Name 4 (Skills: Python, PyTorch) Oct – Dec 2019

* Enriched existing text summarization model with pre-trained BERTSUM encoder model and decoder architecture written in PyTorch by introducing recurrence in model to improve copying of source text, achieved a ROGUE score of 19.03

**Project Name 5** | *Data Science Challenge* **Dec 2019**

* Derived insights from a list of 19,439 restaurants and businesses with menu items containing tacos and burritos from across the US. Generated stories and delivered an interactive visualization tool using Tableau to showcase data analysis

# AWARDS AND HONORS

* **Finalist** in Competition (Name) 2020 Data Science Competition **2020**
* **4th** out of 70 teams in Challenge (Name) during Hackathon **2019**
* **8th** out of 1000+ participants in the Machine Learning Challenge (Name) **2018**

# TECHNICAL SKILLS

**Languages**: Python (NumPy, Pandas, Scikit-learn, matplotlib, TensorFlow, Keras), SQL, R, C, C++, MATLAB, Java, Perl

**Frameworks and Tools**: OpenCV, Spark, Kafka, Git, AWS

**Machine Learning:** Regression, Classification, Clustering, PCA, SVM, Data Mining, Data Analysis, Decision Modeling

**Certifications**: Machine Learning, Deep Learning (Stanford University)