# DEVI SANDEEP ENDLURI

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## EDUCATION

**Texas A&M University,** College Station, Texas                                        Aug 2019 – (exp.) May 2021
*Master of Science in Computer Science*                                                     **GPA**: 3.8 / 4.0
**Coursework**: Deep Learning, Natural Language Processing, Analysis of Algorithms, Info Storage and Retrieval

**Indian Institute of Technology Kharagpur,** Kharagpur, West Bengal, India             Aug 2010 – May 2014
*Bachelor of Technology in Computer Science and Engineering*                                **GPA: 8.27 / 10**

## EXPERIENCE

**Data Analytics at Texas A&M (DATA) Lab, Texas A&M University,** College Station, Texas
*Graduate Student Researcher (under Prof. Xia Ben Hu)*                                      Jan 2020 - Present
- Working on a pipeline utilizing AutoML to automatically search for a best neural model for Natural Language Processing tasks such as Named Entity Recognition
- Constructed Knowledge graphs based on relations extracted from COVID-19 Open Research Dataset (CORD-19)

**Qualcomm India Private Limited,** Hyderabad, India
*Senior Software Engineer*                                                                  July 2014 – July 2019
- Facilitated design, development and maintenance of proprietary software to manage data connectivity of mobile devices in a smart way; Strong involvement in Qualcomm MSM/MDM Chipset bring-up and commercialization
- Spearheaded various IMS critical value-add features (G2L Tuneaway, Dual VoLTE) for Qualcomm chipsets
- Interacted with 10+ internal and external teams to develop features end-to-end. Experience with partnership and collaboration with customers, ecosystem providers and support, during all stages of software product life cycle
- Awarded 5+ Qualstars, Orion Insta award in appreciation of outstanding contributions to Android Connectivity domain

*Software Engineering Intern*                                                              May 2013 – July 2013
- Developed a command-line automation tool with Perl GUI Toolkit to validate presence of all critical non-volatile items in Android Phone memory; Designed a consolidated platform to manage customer requests and software releases

## PROJECTS & COMPETITIONS                                        GitHub: https://github.com/dsandeep0138

**Open Source Contributions:**  scrapy (#4634), tensorflow (#40610), scipy (#20), scikit-image (#4798, #4803)            2020

**Real-time Twitter Data Analysis using Spark**                                             April 2020
- Performed Real-time data analytics on COVID-19 over a Twitter Stream using Big Data Technologies of Hadoop Ecosystem such as Flume, Kafka and Spark Streaming. Built a Flask Web Application to display results and dashboards

**Regression models to predict flight delays**                                             April 2020
- Built Linear, Lasso, Ridge and Bagged Linear regression models to predict flight delays for 3$^{rd}$ and 4$^{th}$ Quarters of 2019. Presented 2018 flight delay data visually through dashboards using leaflet in R. Achieved test RMSE of 9.952

**Deep Learning based Image Colorization with U-Net**                                       Oct – Dec 2019
- Developed neural network regression and classification approaches to convert grayscale images to colorized RGB images with architecture inspired by U-Net, a convolutional method for image segmentation. Achieved accuracy of 70

**Abstractive Text Summarization using pre-trained encoders (NLP project)**                 Oct – Dec 2019
- Modified existing text summarization model with pre-trained BERTSUM encoder model and decoder architecture by introducing recurrence in model to improve better copying  of source text, achieved a ROGUE score of 19.03

**Data Visualization model to analyze Tacos and Burritos data**
*Goldman Sachs Challenge, TAMU Datathon*                                                    2019
- Delivered an interactive data analytics visualization tool using Tableau to represent Taco and Burrito data

## AWARDS AND HONORS

- **Finalist** in **TAMIDS (Texas A&M Institute of Data Science) 2020 Data Science Competition**
- **17th** out of 70 teams in **ConocoPhillips Kaggle challenge** during TAMU Datathon, 2019

## TECHNICAL SKILLS

**Programming Languages**: (proficient) Python, R, C, C++; (familiar) SQL, Java, Perl, Ajax, PHP, JavaScript
**Frameworks/Platforms**: Python (NumPy, Pandas, Scikit-learn, TensorFlow, Keras), MATLAB, R (ggplot2), OpenCV, Latex
**Databases:** MySQL, Teradata
**Certifications:** Machine Learning, Deep Learning (Stanford University); R programming (Johns Hopkins University)