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
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**

TECHNICAL SKILLS

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

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 Information Extraction tasks
- 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 and efficient way in terms of user experience
- Spearheaded various IMS critical value-add features (G2L Tuneaway, Dual VoLTE) for Qualcomm chipsets; strong involvement in Qualcomm MSM/MDM Chipset bring-up, debug, integration and commercialization
- Interacted with 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 (more at https://github.com/dsandeep0138)

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
Finalist, TAMIDS 2020 Data Science Competition — April 2020
- Built Linear, Lasso, Ridge and Bagged 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. 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 — 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

PUBLICATIONS

K. Datta, B. Ghuku, **D. Sandeep**, I. Sengupta and H. Rahaman, "A Cycle Based Reversible Logic Synthesis Approach," 2013 Third International Conference on Advances in Computing and Communications, Cochin, 2013, pp. 316-319