DEVI SANDEEP ENDLURI

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EDUCATION

Texas A&M University, College Station, Texas   Anticipated Grad date: May 2021
Masters in Computer Science   **GPA**: **3.857 / 4.0**
Teaching Assistant: Programming Studio CSCE 315 (Spring 2020, Fall 2020)
Coursework: Deep Learning, NLP, Analysis of Algorithms, Software Engineering, 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 – Dec 2020**
- Formulated an **AutoML** pipeline to automatically search for a best neural model for Named Entity Recognition NLP task
- Constructed Knowledge graph based on 0.9M co-occurrence relations extracted from COVID-19 Open Research Dataset

Penn State University, State College, Pennsylvania
Data Science Research Intern   **May 2020 – Aug 2020**
- Productized a fully automated end-to-end framework in **Python** using **Amazon Rekognition** to detect text in the image and **OpenCV** to detect axes, labels, legends and to finally extract data from charts in scientific research papers
- Achieved an accuracy of 84.08% in chart classification using VGG Neural Networks in **Keras**, 98% and 68% in parsing x-axis and y-axis ticks, 83% in detecting legends and 42% in extracting data values in the testing corpus

Qualcomm India Private Limited, Hyderabad, India
Senior Software Engineer   **July 2014 – July 2019**
- 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

PROJECTS & COMPETITIONS

Animations in Cell Biology Learning Content (Skills: **HTML, CSS, JavaScript**)   **Oct - Dec 2020**
- Developed interactive animations using JavaScript to improve the biology learning experience of middle school students

Real-time COVID-19 Twitter Data Analytics (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 Flask

Deep Learning Image Colorization based on U-Net (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

Abstractive Text Summarization using pre-trained encoders (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

- [*DSGO Virtual Hackathon 2020*] [**Best Model Award**] Built a predictive model to determine the missing NO_3 values after analyzing data from different air quality monitoring sites in California
- [*Walmart Challenge, TAMU Datathon 2020*] Built a product search engine by crawling through Walmart.com to assemble multiple product web pages from various categories
- [*TAMIDS 2020 Data Science Competition*] [**Finalist**] Developed Linear, Ridge regression models to predict flight delays for 3rd and 4th Quarters of 2019. Achieved test RMSE of 9.952. Presented 2018 flight delay data visually using leaflet in R
- [*Goldman Sachs Challenge, TAMU Datathon 2019*] Derived insights from a list of 19,439 restaurants across US with menu items containing tacos and burritos. Delivered an interactive visualization tool using Tableau to showcase data analysis
- [*Open Source Contributions*] scrapy (#4634), tensorflow (#40610), scipy (#20), scikit-image (#4803), gensim (#2869)

TECHNICAL SKILLS

Languages: Python (NumPy, Pandas, Scikit-learn, matplotlib, TensorFlow, Keras), SQL, R, C, C++, MATLAB, Java, Perl, Ajax, PHP
Frameworks and Tools: OpenCV, Spark, Kafka, Git, AWS
Machine Learning: Regression, Classification, Clustering, PCA, Data Mining, Data Analysis, Decision Modeling, A/B Testing
Certifications: Machine Learning, Deep Learning (Stanford University); CS50 Puzzle Day 2020 (Harvard University, Facebook)