

DEVI SANDEEP ENDLURI

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EDUCATION

Texas A&M University, College Station, Texas

Anticipated Grad date: May 2021

Master of Science in Computer Science

GPA: 3.8 / 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 – Present

- 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)

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 **OpenCV** and **Amazon Rekognition** to detect axes with an accuracy of 80.22, 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 84.01 across 13 categories

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

Open Source Contributions: scrapy ([#4634](#)), tensorflow ([#40610](#)), scipy ([#20](#)), scikit-image ([#4798](#), [#4803](#)), gensim ([#2869](#))

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 Python Flask.

Regression models to predict flight delays | TAMIDS 2020 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. Achieved test RMSE of 9.952

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

Data Visualization model to analyze Tacos and Burritos data | Goldman Sachs Challenge, TAMU Datathon

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 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
- **8th** out of 1000+ participants in HackerEarth Machine Learning Challenge - Predict the DEFCON level

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, SVM, Data Mining, Data Analysis, Decision Modeling, A/B Testing

Certifications: Machine Learning, Deep Learning (Stanford University); CS50 Puzzle Day 2020 (Harvard University, Facebook)