VINAY LOCHARULU

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Education

2018 - 2020

MS in Information Studies (Machine Learning and Artificial Intelligence pathway)

University of Texas at Austin

GPA: 3.83/4

Work Experience

2019 - Present

Data Scientist Intern

Dell Technologies

Develop scalable big data models using machine learning algorithms

2019 - Present

Graduate Teaching Assistant

Department of Statistics and Data Science, The University of Texas at Austin

Responsibilities: Lead lab sessions to assist students to apply data science in statistical programming languages such as Python and R

2018 - 2019

Graduate Research Assistant

McCombs School of Business, University of Texas at Austin

Contributing to multiple research projects as Machine Learning Engineer under Dr. John M Griffin.

2015 - 2018

Data Scientist

Accenture R&D, India

Responsible for research and development of machine learning technologies. Developed frameworks and products for Accenture in machine learning,deep learning and biometrics.

Skills

- **Programming**: Python, Pyspark, C#, R, Latex
- **Deployment:** Experience with on-prem and cloud deployment of ML models using Flask, Domino lab and Microsoft Azure
- **Algorithms/Techniques**: RNN-LSTM, CNN, Regression, Decision Trees, SVM, NLP
- **Machine Learning Libraries**: Tensor-flow,Keras, scikit-learn,open cv, NLTK, Spacy, CMU-Sphinx, Kaldi
- **Databases**: PostgreSQL, SQL,Hadoop (Hive), MongoDB

Selected Projects & Publications

- **Smart Policy Advisor (2019):** A tool that captures insights from various sources such as Support Assist and PC doctor to rank alerts leading to a dispatch, the tool helps in predicting failures of PC commodities such as Hard drive and Battery. An iterative ML pipeline using Pyspark and Hadoop was developed to periodically assess alert trends.
- **Analysis of Machine Reading Comprehension models(2018):** Conducted an extensive study of the state of the art MRC neural models and benchmark datasets to understand and compare the peculiarities of neural models by performing quantitative and qualitative analysis. This study was done under Dr. Mathew Lease in the Crowdsourcing and Information Retrieval lab at the University of Texas at Austin.
- **Optical Character Recognition Framework (2018)**: This product helps end-users custom train models that extract text from digitized and handwritten documents. Deep Learning algorithms such as bi-directional Long Short Term Memory (LSTMs) and Convolutional Neural Networks were used to develop an extractor pipeline.
- **Automating Trade Settlement Requests (2017)**: The tool is automating 75% of the email requests for a leading financial services firm. Custom bidirectional RNN-LSTM model was built to classify emails and extract data from unstructured email text using custom Named Entity Recognizer.
- **Accenture Identity Testing Framework (2015)**: A framework built on C#/WPF can perform a full-fledged benchmark, Normalization, large-scale matching and multi-modal fusion of different biometrics modalities.

Extra curricular/ Leadership Positions

- ***Dell Campus Ambassador (2019-Present)*** **-** The University of Texas at Austin
- ***Member(2018- Present)*** **-** Crowdsourcing & Information Retrieval group, The University of Texas at Austin
- ***Member(2018-Present)*** **-** Facebook Developer Circles
- ***Mentor(2018-Present)*** **-** Graduate Indian Student Assembly
- ***Machine Learning Coach(2017-2018)***- Accenture Learning and Knowledge Management
- ***Math Club Chairman(2012-2014)*** -CMRIT
- ***Teaching Assistant for Real-Time Systems(10EC762)*** **-** CMRIT (2013-2014)

Awards/Honors

- **Accenture Celebrates Excellence(Individual Innovation Category)**: Was the youngest recipient of Accenture's highest recognition award in 2016 for my contributions towards building assets on machine learning.