Jayavardhan Reddy Peddamail

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AREAS OF INTEREST

Machine Learning • Deep Learning
NLP • Reinforcement Learning

EDUCATION

OHIO STATE UNIVERSITY
MS in Computer Science
Expected May'19 | Columbus, OH
Cum. GPA: 4.00

NIT, TRICHY
B.Tech in Electronics and Communication Engineering
May'15 | Trichy, India
Cum. GPA: 8.10 / 10.0

LINKS

Google Scholar:// JayavardhanReddy
Github:// jayavardhanr
LinkedIn:// jayavardhanr

COURSEWORK

Question Answering Systems
Social Media and Text Analytics
Speech and Language Processing
Machine Learning
Advanced Artificial Intelligence
Computer Vision

SKILLS

PROGRAMMING
Over 5000 lines:
Python • Java • Matlab • LaTeX
Over 1000 lines:
R • C • C++ • SQL • Shell
Familiar:
HTML • CSS • JavaScript • MySQL

TOOLS/PACKAGES
Expert:
Keras • Tensorflow • Scikit-Learn
Numpy • Pandas • NLTK • Git
Proficient:
Pytorch • CoreNLP • S3 • Plotly
BitBucket • Beautiful Soup
Familiar:
Spark • Spacy • CUDA • ELK • Docker

AWARDS

Citi Star Award
Citi Le-novation Award
Best Outgoing Student'09, '11

PUBLICATION/TUTORIALS

WORKSHOP PAPER - A COMPREHENSIVE STUDY OF STAQC FOR DEEP CODE SUMMARIZATION July 2018
KDD 2018, Deep Learning Day - Spotlight Presentation (top 5%)

TUTORIAL - END-TO-END SEQUENCE LABELING VIA BI-DIRECTIONAL LSTM-CNNS-CRF May 2018
Presented at MLTrain@RML, ICML 2018

EXPERIENCE

DEEP LEARNING INTERN | The Climate Corporation | May'18 – July'18 | Saint Louis, MO

- Worked on weather-modelling for seeding rate prescription. Developed auto-encoders to generate features from multi-variate weather data.
- Designed transfer learning approach to use trained weather model to predict optimal seeding rate.
- Reduced yield RMSE by 20% over existing yield model.

NATURAL LANGUAGE PROCESSING ENGINEER | Citi Group | June'16 – June'17 | India

- Developed models for Information Retrieval from financial trade chats using NLP and Machine learning.
- Utilized Tri-training approach to utilize large quantities of unlabelled data and developed regex to capture financial entities.
- Designed and tuned machine learning models to classify chats between different financial entities.
- Developed a NER system to detect entities in a financial chat and deployed deep learning model, which can extract Ticker information from an unstructured trade chat.

APPLICATION DEVELOPER | Citi Group | July'15 – June'16 | India

- Developed java module for Runbook generation and designed POC on Block chain for Reconciliation.

RESEARCH/PROJECTS

GRADUATE RESEARCH ASSISTANT | Nationwide Center For Advanced Customer Insights | August 2018 – Present
Solving critical problems in insurance industry using Machine learning.

GRADUATE STUDENT RESEARCHER | Adviser : Prof. Huan Sun | April 2018 – Present
Currently exploring strategies to improve Code Summarization/Retrieval.

RESEARCH PROJECT | Adviser : Prof. Jihun Hamm | Spring 2018
Explored deep learning techniques for time-series future event prediction

- Developed encoder-decoder framework for reconstruction and prediction, for both continuous and discontinuous time-series.
- Implemented Soft-DTW loss for time series and explored application to point-process techniques for discontinuous time-series. **Github Repo**

STUDY OF SEQUENCE LABELING IN NLP | March'18 - May'18
Experimental study of state-of-the-art deep learning models for Sequence Labeling tasks in NLP. **Github Repo**

VIDEO CLASSIFICATION USING NLP | Oct'17 - Nov'17
Utilized Image captioning models to caption video frames. Generated captions were used to classify video's into different categories based on the actions performed in them. **Frameworks :** Tensorflow, Scikit-Learn.