Jayavardhan Reddy Peddamail

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AREAS OF INTEREST

Machine Learning • Deep Learning
NLP • Software Engineering

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 • Pytorch
Scikit-Learn • Numpy • Pandas
NLTK • Git
Proficient:
CoreNLP • S3 • Plotly • gensim
Spacy • Beautiful Soup
Familiar:
Spark • BitBucket • ELK • Docker

AWARDS

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

PUBLICATION/TUTORIALS

COACOR: CODE ANNOTATION FOR CODE RETRIEVAL WITH REINFORCEMENT LEARNING May 2019
The Web Conference' 2019, Long Paper (Oral Presentation /Poster)

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

RESEARCH/WORK EXPERIENCE

GRADUATE RESEARCH ASSISTANT | Nationwide Insurance | August'18 – Present

- Developing NLP models to understand changing trends in insurance claims year over year.

GRADUATE STUDENT RESEARCHER | Advisor : Prof. Huan Sun | Spring'18 – Present

- Exploring Deep Reinforcement Learning strategies to improve Code Retrieval/Summarization.

DEEP LEARNING INTERN | The Climate Corporation | May'18 – July'18

- Worked on weather-modeling for seeding rate prescription. Developed auto-encoders to generate features from multivariate 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.

NLP ENGINEER AND APPLICATION DEVELOPER | Citi Group | July'15 – 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 unlabeled data and developed regex to capture financial entities.
- Designed and tuned machine learning models to classify financial conversations into different financial entities.
- Developed an NER system to detect entities in a financial chat and deployed deep learning model, which can extract Ticker information from an unstructured trade chat.
- Designed Bloomfilter lookup for faster financial entity tagging.

PROJECTS

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**

QUORA DUPLICATE QUESTION DETECTION | Sep'17 - Nov'17
Implemented Deep Learning and traditional ML approaches to identify questions with similar intent on Quora. **Frameworks :** Keras, Sklearn.

RESEARCH PROJECT | Adviser : Prof. Jihun Hamm | Spring 2018

- Developed encoder-decoder framework for reconstruction and prediction, for both continuous and discontinuous time-series.
- Implemented Soft-DTW loss for time series. **Github Repo**