

SriKrishna Kompella

I TEACH LANGUAGE..... TO MACHINES!

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Education

University of Massachusetts Amherst - Amherst, MA

Aug 2016 - Present

MASTER OF SCIENCE IN COMPUTER SCIENCE

GPA: 4.0

- **Courses:** Advanced Machine Learning, Advanced NLP, Distributed Systems, Algos and Systems for Data Science, Quantum Computing

PES Institute of Technology - Bangalore, India

Aug 2009 - Jun 2013

BACHELOR OF ENGINEERING IN COMPUTER AND INFORMATION SCIENCES

GPA:3.67

Experience

The Hive - Palo Alto, CA

May 2017 - Sept 2017

NLP INTERN - DIALOG SYSTEMS

- Building interactive dialog systems using end to end neural network models and real world datasets
- Improving memory and attention mechanisms(both CNN & RNN based seq2seq networks) to obtain more realistic and useful dialog
- Augmented dialog existing knowledge using multiple encoders (multi-task learning) to add more information to dialog

Nvidia Corp. - Bangalore, India

Jul 2013 - Jul 2016

TECH LEAD - VIRTUALIZATION (QUALITY)

Oct 2014 - Jul 2016

- Responsible for delivering test strategies, and automation tools for validating Nvidia's Hypervisor tech used in autonomous vehicles
- Developed multiple tools and test strategies to test components of the SoC like Memory Controller, UART, I2C, CAN etc
- Contributed to defining and implementing Automotive safety and quality policies
- **Achievement: Fastest promotion (in one year from joining as New College Grad) and youngest Lead in my Business unit**

Skills

Languages

Python, C++, C, Java, Bash

Tools

PyTorch, Keras, TensorFlow, SciKit Learn, NumPy, SciPy, OpenCV

Deep Learning

RNN, CNN, Memory Networks, Seq2Seq models, Reasoning over Attention and Memory

NLP

Dialog generation, Information Extraction, Question Answering, Text Classification

Research

Memorizing context for dialog generation

DEEP LEARNING, DIALOG SYSTEMS, NATURAL LANGUAGE PROCESSING

- Use a second encoder (a Memory Network) that encodes context (prior turns in the conversation)
- Working toward publishing this work

Extracting Action Graphs from Materials Science Synthesis Procedures

UNSUPERVISED LEARNING, INFORMATION EXTRACTION, NATURAL LANGUAGE PROCESSING

- Advised by Prof. Andrew McCallum
- Generate an action graph (like a flowchart) of a synthesis procedure from text in a Material Science research paper.
- Under review at NIPS 2017 - Workshop on Machine Learning for Molecules and Materials

Projects

Interactive dialog using Convolutional Sequence to Sequence Networks

June 2017 - July 2017

DEEP LEARNING, NLP

Python, PyTorch

- Reproduced the work of Gehring et al. and repurposing for Dialog generation

Relation Extraction using Recurrent Neural Networks

Oct 2016 - Dec 2016

DEEP LEARNING, NLP

Python, PyTorch

- Using RNNs for supervised relationship extraction
- Improved accuracies over existing works by just modifying the input vector representations

Domain adaptation using Deep Adversarial Neural Networks

Oct 2016 - Dec 2016

DEEP LEARNING, DOMAIN ADAPTATION FOR NLP AND VISION

Python, TensorFlow

- Research Project in domain adaptation for sentiment analysis and object recognition
- Added new optimization objective which **improved classification accuracy up to 3% with text data and up to 6% with image data**