KARTHIK CHINTAPALLI

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WORK EXPERIENCE

Software Engineering (Machine Learning) Intern

Kenome Technologies, Bangalore, *2018*

- Worked with **Dr. Partha Pratim Talukdar** on leveraging twitter data for financial domain prediction tasks.
- Developed various state-of-the-art NLP models using Keras and Tensorflow, and deployed them as services.

Undergraduate Researcher

Language Technologies Research Centre, IIIT-H
May 2017 – Present

- Working with **Dr. Manish Shrivastava** on adversarial models for Natural Language Generation.
- Previously worked on Question-Answering systems and Neural Machine Translation.
- Projects involved designing, developing and experimenting with novel neural network architectures in PyTorch.

Teaching Assistant

Natural Language Processing, IIIT-H, *2018*

- Teaching Assistant for the graduate-level Natural Language Processing course (130+ students).
- Responsible for conducting tutorial sessions as well as mentoring 30+ students in projects in the areas of Paraphrase Detection, Discriminative Features and Relation Extraction.

MAJOR PROJECTS

Email Author Identification, *2017*

- Developed a system that identifies the authors of emails by learning their style. Useful for detecting identity fraud.
- Matched SOTA 80% accuracy on the ENRON dataset using a Hierachical-Bi-LSTM model with stylometric features.

Decentralized Food Delivery App for Blockchains, *2018*

- Built a fully-decentralized food delivery Dapp for the Ethereum blockchain using Solidity and Truffle.
- Eliminates need for intermediate services by handling all co-ordination between restaurants, couriers and customers.

Automated Question-Answering System, *2018*

- Developed a fact-aware Question-Answering model based on Dynamic Memory Networks, in Tensorflow.

Decaf Compiler using LLVM, *2018*

- Built an LLVM-based compiler for the decaf language.
- Generated a lexer, parser, abstract syntax tree, and LLVM IR using the LLVM API in C++.

News Credibility Determination, *2018*

- Built a system that determines the credibility of news headlines, to combat fake news.
- Combined textual features learnt by a CNN with information about the publisher for classification.

EDUCATION

Bachelor of Technology in *Computer Science and Engineering* (Honors in *Natural Language Processing*)

International Institute of Information Technology, Hyderabad, India

2015 – 2019 *GPA - 3.55/4*

WORK PERMIT

USA (citizen) and **India**.

ACHIEVEMENTS

- Placed **3rd in India**, out of 6731 teams (18000+ students) from top universities across the country, in the Flipkart GRiD Machine Learning Quiz, 2019.
- Two-time Dean's Distinction List Awardee for Academic Excellence (top 5% of the batch), for the years 2017 & 2018.
- Official WCA timing of 13.13 seconds for speedsolving the Rubik's Cube.

SKILLS

C, C++, Python, SQL ●●●●●
PyTorch, Keras ●●●●●
Tensorflow, Java, Solidity ●●●●○
Javascript, React.js, Node.js ●●●●○
OpenGL, MPI ●●●●○

COURSES

- **Programming**: Computer Programming, Data Structures, Algorithms
- **Machine Learning**: Machine Learning, Artificial Intelligence, Natural Language Processing, Digital Image Processing, Optimization Methods*
- **Systems**: Software Systems, Compilers, Distributed Systems, Database Systems, Operating Systems, Computer Networks
- **Cryptography & Privacy**: Blockchain, Information Security*