

ASHWIN NARESH KUMAR

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EDUCATION

Carnegie Mellon University, School of Computer Science

Master of Science, Intelligent Information Systems

Pittsburgh, PA

December 2018

Relevant Coursework: Machine Learning, Machine Learning for Text Mining, Language and Statistics (Fall 2017)

PES Institute of Technology (PESIT)

Bachelor of Engineering, Computer Science and Engineering

Bangalore, India

May 2016

GPA: 9.74/10.0

SKILLS

Programming/Scripting Languages: Python, C, Java, C++, JavaScript, PHP, SQL

Frameworks and tools: Keras, TensorFlow, OpenStack, Git

EXPERIENCE

Brocade Communications Systems

Bangalore, India

Software Engineer

July 2016 – July 2017

- Prototyped a smart load balancer using deep learning techniques for usage prediction to balance the mobile traffic on Enterprise Switches; Filed Provisional Patent on the proposed solution
- Implemented a CLI and REST framework for discovering connected LTE network components

Intern

January – June 2016

- Designed and implemented a LSTM network for performing anomaly prediction in LTE network traffic using Google TensorFlow; Filed Provisional Patent on the proposed solution
- Developed a LSTM model capable of detecting inconsistencies in LTE protocol message exchanges in mobile traffic flows

Center for Cloud Computing and Big Data, PESIT [\[Pub\]](#) [\[Video\]](#)

Bangalore, India

Summer Research Intern

May – August 2015

- Implemented a cloud federation solution for OpenStack using Nova cells (EMC² funded project) which was presented at the OpenStack Atlanta Summit 2014
- Architected a hybrid cloud solution for federating OpenStack and vmware vCloud Air using Nova Availability Zones (vmware funded project)

PROJECTS

Automated CAPTCHA Generation from Annotated Images using Encoder Decoder Architecture [\[Pub\]](#)

Bangalore, India

PES Institute of Technology

Spring 2016

- Developed a Question Generation system (questions with multiple answers) using annotated images as a knowledge base and proposed it as a CAPTCHA
- Built the system using a GRU Encoder Decoder architecture

Automated Content Suggestion from Document Writing [\[Pub\]](#)

Bangalore, India

PES Institute of Technology

Fall 2015

- Designed and implemented a system which provides content suggestions based on the document context
- Prepared content suggestion by performing keyword extraction, concept tagging from the document sliding windows and a web search on the extracted keywords and concepts
- Achieved a 42% increase in document preparation time when compared to a manual composition

Cricket Match Summary Generation

Bangalore, India

PES Institute of Technology

Fall 2015

- Developed a cricket match summary generation system given the commentaries
- Scraped commentaries from the web and performed Named Entity Recognition using a Recurrent Neural Network (RNN)
- Tagged commentaries with 'match events' using a MaxEnt model
- Generated a summary based on the outputs of the RNN and the MaxEnt model

AWARDS

- Winner at NVA Hackathon, January 2017, Brocade Communications, Bangalore among over 100 participants
- Third Runner Up at HackerRamp Hackday, Myntra Designs, Bangalore among over 300 participants