

ATIF AHMED

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EDUCATION

Columbia University in the City of New York

Sept 2016 - Dec 2017

Master in Computer Science, GPA: 3.96/4.00

Relevant courses: Machine Learning, Adv. Database Systems, NLP, Deep Learning, Distributed Systems, Computer Vision

National Institute of Technology Karnataka, Surathkal

July 2011 - May 2015

Bachelor of Technology in Information Technology, CGPA: 9.04/10.00

EXPERIENCE

Uber Advanced Technologies Group (ATG), Pittsburgh

Software Engineering Intern

June 2017 - Aug 2017

- Worked on AVMaps team responsible for creation of 3D maps containing information like traffic lights, lanes (location, direction, connection with traffic light) with high precision for self-driving cars. Built a system for visualization of performance data to analyze possible performance issues with the map creation pipeline and create a memory usage prediction system.

Samsung Research Institute Bangalore, India

Software Engineer

July 2015 - July 2016

- Worked on a project based on creating an intelligent model which learns the network characteristics and accordingly uses the properties of the best performing TCP variant. Worked at South Korea headquarters for a month to collaborate on a project aimed at reducing the power consumption in mobile hotspot tethering. Also worked on a project named CloudBooster for helping users manage multiple cloud storage accounts using ReST APIs and OAuth 2.0.

Student Trainee

May 2014 - July 2014

- Developed code for a project aimed at reducing the channel changing time in TVs by connecting them in a P2P network.

Indian Institute of Technology, Kanpur

May 2013 - July 2013

Summer Research Fellow

- The internship was focused on the development of P2P LAN based drawing and teaching application. Tasks included finding and rectifying network based problems which occur when many users are using shared resources.

Wang Genomics Lab, Columbia University Medical Center

Research Assistant

Feb 2017 - June 2017

- This project aimed to identify and prioritize cancer driver genes based on patient's personal information as well as prior biological knowledge using radial SVMs and Convolutional Neural Networks and then using it for precision medicine.

SELECT PROJECTS

Web service classification model by semantic and syntactic information

July 2014 - Nov 2014

National Institute of Technology Karnataka, Surathkal

- Developed a composite classification model which combined the syntactic information like tf-idf along with semantics based measures like term-relatedness to obtain class dependent vectors which were then fed to various classifiers. IACC publication.

Exploring the Wisdom of Crowds

Jan 2015 - Apr 2015

Stanford University, Distance Project

- Systematically investigated the wisdom of crowds by developing and conducting a mass experiment consisting of 1000 tasks in 50 subject domains. All the tasks (of more than 100 student researchers) and results culminated in a publication.

Intrusion Detection Through Combining SVMs with Ant Colony Networks

July 2014 - Nov 2014

Classification of RSS feed based on ontology

July 2013 - Nov 2013

Authentication system using gesture recognition on Kinect

Jan 2014 - May 2014

PUBLICATIONS AND HONORS

- S. Kamath, A. Ahmed and M. Shankar, "A Composite Classification Model for Web Services Based on Semantic and Syntactic Information Integration", *Advance Computing Conference (IACC), 2015 IEEE International*, pp. 11691170, 12-13 June 2015.
- A.S. Mysore, A. Ahmed and several others, "Investigating the 'Wisdom of Crowds' at Scale", *Adjunct Proceedings of the 28th Annual ACM Symposium on User Interface Software & Technology*, pp. 7576, 8-11 Nov. 2015.
- Summer Research Fellowship, Indian Academy of Sciences (IAS), Bangalore. May 2013
- Annual Merit Scholarship, Central Government of India. 2011-2015

SKILLS

C, C++, Java, Python, Go, MATLAB, Octave, PHP, JS, MySQL, PostgreSQL, TensorFlow, Keras, PyTorch, React, Arcanist