Udit Saxena

✉ usaxena@umass.edu ☎ +1 (413) 824-5810 🌐 http://uditsaxena.github.io

Education

University of Massachusetts, Amherst, MA   Sept 2016 – Present
MS in Computer Science, College of Information and Computer Sciences   GPA: 3.85
Coursework: Machine Learning, Systems for Data Science

Birla Institute of Technology and Science, Pilani, India   Aug 2010 – Aug 2015
BE (Hons.) in Computer Science, MSc (Hons.) in Mathematics

Positions of Responsibilty

Core Team, BITSMUN Society,   2010 - 2014
- Part of the core team which helped organized the largest Model United Nations Conference in India in 2012 - 2014.
- Involved in the outreach program towards school students to encourage participation in an event which is otherwise routinely attended by college students

Director of Logistics and Finance, BITS Model United Nations,   2012 - 2014
- Along with a team of 10 other individuals I was accountable for the participation of over 400 students - both national and international - and making the event feasible by managing the finance and logistics - including sponsorship, event management, social media engagement and management, and ensuring strong event participation.

Research Experience

Multivariate Time Series Analysis - Real Time Gesture Recognition,   Aug 2014 - Dec 2014
Mentor: Prof. Navneet Goyal   BITS Pilani
- Built a model to account for the real time factor of most human gestures as naturally occurring time series and to handle these time series frame by frame, and recognize an early stopping criterion for faster recognition.
- Achieved a recognition rate of 93 percent on the AUSLAN (Australian Sign Language) Dataset across 2300 instances and a recognition rate of 91 percent on the Daily Sports and Activities Dataset across 9000 instances using 5 fold stratified cross validation.

Work Experience

Sprinklr, Gurgaon, India   July 2015 – Aug 2016
Product Engineer, Core Team
- Spearheaded the development of a Single Sign On solution using OpenSAML for Sprinklr as an Identity Provider to manage customer authorization sessions across multiple Sprinklr product lines.
- Engineered API integrations of social media platforms - Twitter, Under Armor Record, Wordpress - and enterprise solutions - SAP C4C, SAP Hybris - and increased social media platform coverage by 15%.

Adobe Systems, Bangalore, India   Jan 2015 – June 2015
Intern, Adobe Captivate
- Built the User Analytics feature to collect non-Personal Identity Information about Captivate users.
- Setup a pipeline to clean, mine, analyze the data and provide data driven insights for the team.

MLPACK, Google Summer of Code   May 2014 – Aug 2014
Summer Intern
- Developed Machine Learning algorithms for MLPACK - an open source machine learning library with over 1200 stars on Github and multiple citations - and been a core contributor since May 2014.
- Implemented Multi-Class Adaboost algorithms - Adaboost.M1, Adaboost.MH and Adaboost.SAMME algorithms.
- Added weak learning algorithms - Decision Stumps using template based splitting, and Perceptrons (single layer neural networks) for the boosting algorithms suite.

Academic Achievements and Awards

- Secured the top 1 percentile of the country in Mathematics, Class X, AISCE

Extra-curricular activities

- Participated as a cadet of the 37 UP BN in the Combined Annual Training Camp, National Cadet Corps., 2006.