Udit Saxena

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Education

University of Massachusetts, Amherst, Amherst, MA — Sept 2016 – Present
MS in Computer Science, College of Information and Computer Science
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

Research Experience

Multivariate Time Series Analysis - Real Time Gesture Recognition, — Aug 2014 - Dec 2014
Mentor: Prof. Navneet Goyal — BITS Pilani

- Built a model which accounts for the real time factor of most naturally occurring time series and is able to handle time series frame by frame, thereby recognizing 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.
- Currently working on a paper on the same.

Work Experience

Sprinklr, Gurgaon, India — July 2015 – Aug 2016
Product Engineer, Core Team

- Implemented API integrations of popular enterprise solutions like SAP C4C, SAP Hybris and third party social networks to allow customers to fix compatibility issues or overcome cost of migration.
- Designed and developed a Single Sign On solution for Sprinklr as an Identity Provider to manage authorization across multiple Sprinklr product lines.
- Implemented REST-based API extensions to the core module.
- Simplified, streamlined and extended the system wide logging capabilities.

Adobe Systems, Bangalore, India — Jan 2015 – June 2015
Intern, Adobe Captivate

- Implemented the User Analytics feature to collect non-Personal Identity Information about Captivate users and setup a pipeline to clean, mine, analyze the data and provide insights for data driven decisions.

MLPACK, Google Summer of Code, — May 2014 – Aug 2014
Intern, Core Contributor since May 2014

- Implementation of Multi-Class Adaboost algorithms - weak learning algorithms - Decision Stumps and Perceptrons (neural networks) and the Adaboost.M1, Adaboost.MH and the Adaboost.SAMME multi-class boosting algorithms.
- Implemented Decision Trees, along with template based splitting algorithms.

Projects

Wikipedia bot: Wikipedia bot for vandalism detection. Given an edit of a Wikipedia article, the bot's task is to detect and flag ill-intentioned edits. Achieved an accuracy of 81 percent using SVM.
Compiler: Designed a complete functional compiler in Python for a toy language as a part of the course Programming Languages and Compiler Construction.

Achievements

- Core Team, ACM Student Chapter, BITS Pilani, Pilani 2010-2012.
- Secured the top 1 percentile of the country in Mathematics, Class X, CBSE, India