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### Education

#### University of Massachusetts, Amherst, MA

MS in Computer Science, College of Information and Computer Sciences

Concentration in Data Science

Coursework: Machine Learning, Systems for Data Science

Birla Institute of Technology and Science, Pilani, India

BE (Hons.) in Computer Science, MSc (Hons.) in Mathematics

Aug 2010 - Aug 2015

Sept 2016 – Present

GPA: 3.85

## 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%.
- Developed REST-based API extensions to the Sprinklr core module and streamlined the core audit module.

#### 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.

# **Projects**

Generating descriptions of videos using RNNs: Generating descriptions of videos by using a sequence to sequence model to map input videos to output sentences which describe the video. The model extracts the features from frames of the video using a deep Convolutional Neural Network and encodes these features. Using a multi-layered Recurrent Neural Network with LSTM units or GRUs, the model then decodes the video to its corresponding description.

**Graph Analytics - PageRank:** Implemented Google's PageRank algorithm on the Pregel graph analytics framework using the Bulk Synchronous Processing model to simulate and analyze large graphs in a single node multi-threaded environment.

Wikipedia bot: Developed a Wikipedia bot for vandalism detection in wiki edits. Given an edit of a Wikipedia article, the bot's task is to detect and flag ill-intentioned edits. Achieved an accuracy of 81% using SVMs and 79% using Naive Bayes Classifier.

# Research Experience

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

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.

### Skills

• Java, C++, Python, MATLAB; Git, SVN; Linux; MongoDB, Elasticsearch, MySQL