Sandesh Swamy

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EDUCATION

The Ohio State University   **May 2017**
Master of Science in Computer Science and Engineering   **GPA: 3.7/4.0**
Relevant Courses: Natural Language Processing, Machine Learning, Computational Linguistics, Data Mining, Advanced Artificial Intelligence, Algorithms, Operating Systems, Neural Networks, Programming Languages, Language in Social Media
Thesis: Forecasting event outcomes from user predictions on Twitter

R.V. College of Engineering   **Jul 2013**
Bachelor of Engineering in Computer Science and Engineering   **GPA: 9.37/10.00**
Relevant Courses: Data Structures and Algorithms, Software Engineering, Operating Systems, Advanced Algorithms, Cryptography and Network Security, Computer Networks, Computer Organization, Database Management Systems

EXPERIENCE

Graduate Research Assistant, The Ohio State University   **May 2016 – July 2017**
- Research focused on event forecasting and Social Media data analysis.
- Experimenting with veridicality assessment for events on Twitter data (Python, Amazon Mechanical Turk).
- Created a new dataset for veridicality annotations; carried out experiments trying to forecast events from Social Media data.

Graduate Teaching Assistant – CSE 1222, The Ohio State University   **Jan 2016 – May 2016**
- Delivered biweekly lectures, oversaw programming labs and held office hours to help more than 30 students with Introduction to Programming in C++.

Software Engineer, Cisco Systems, India   **Aug 2013 – Jul 2015**
- Implemented the command line parsing for initial Connected Lighting module.
- Worked on USB console, TDR, LED and Silent Roll modules as a part of the Green Apple compact switch India core team.
- Designed an auto-committer to ease the process of double commits.

Intern, Indian Institute of Science, India   **Jul 2011 – Sep 2011**
- Synchronized Microsoft's own TTS engine with that of IISc to create a screen reader experience for Indic languages.
- Collaborated with Harfbuzz (shaping engine) to understand how shaping of fonts work on mobile devices to ensure that Indic languages were presented in the right form.

TECHNICAL SKILLS

Programming Languages: Java, Python, C (proficient), C++ (moderate).
Databases: MySQL, SQL Server.
Technologies: HTML, Javascript, Bootstrap UI, Git, Python numpy, scipy, Amazon Mechanical Turk, Octave, R, Android Programming, GitHub, Atlassian – BitBucket.

PUBLICATIONS

- *"I have a feeling trump will win…….." Forecasting winners and losers from User predictions on Twitter*, Proceedings of Empirical Methods in Natural Language Processing (EMNLP), 2017.

SELECT PROJECTS

Public Perception to Currently Running Movies (Python, TextBlob, TMDb API, Twitter APIs)   **Feb 2016 – Apr 2016**
- Used TMDb API to get a list of currently running movies in US theatres and narrow down the number of movies based on their popularity index.
- Obtained the polarity and sentiment of tweets (gathered using Tweepy library) using TextBlob library APIs and Naïve Bayes classification and presented the user with consolidated results.

Feature Based Classifier for Classifying Poetry and Prose (Python, CRFsuite, BeautifulSoup)   **Feb 2016 – Apr 2016**
- Implemented the baseline classifier for differentiating prose from different forms of poetry like Haikus, Limericks, Sonnets and Ballads using CMU pronunciation dictionary and a set of manually created features.
- Utilized off the shelf CRF implementation called CRFSuite to achieve an F1 score of 85%.

Classification and Clustering of Large Datasets (Python, matplotlib, R, Weka)   **Sep 2015 – Dec 2015**
- Worked with classification and clustering algorithms like kNN and k-means achieving an accuracy of 72%.

ADDITIONAL EXPERIENCE

- **Hackathons:** ECSG Hackathon at Cisco (2014 Winner), 1NS Hackathon at Cisco (2013 Crowd favorite hack), Windows 8 Hackathon by Microsoft (2012 Top 25 Apps), InMobi Hack (2015 Participant), Yahoo Open Hack (2011, 2012 Participant), OHI/O (2016 Participant).