Praneeth Gubbala

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EDUCATION

Stony Brook University **Stony Brook, NY** **Jan 2017-May 2018**
Master of Science in Computer Science Winner of Bloomberg Code Con–SBU 2017

Osmania University **Hyderabad, India** **Oct 2010-May 2014**
Bachelor of Engineering in Computer Science National Merit Scholar (2010-14)

EMPLOYMENT

Senior Software Engineer **Samsung R&D Institute, Bangalore** **Feb 2016-Dec 2016**
Intelligent Services Spot Award – October 2016

- Responsible for Call, SMS, Contacts domains semantic pattern-based classifier accuracy in Commercialized Bixby of Galaxy S6, S7, S8 mobiles.
- Developed Number and Phone number criteria handlers in Bixby personal assistant NLU Core. PCRE, C++.
- Implemented context switching in Bixby by using Stanford deterministic co-reference system to recognize pronouns from follow-up utterance reference to root utterance uttered by the user to Bixby. Java.

Software Engineer **Samsung R&D Institute, Bangalore** **July 2014-Jan 2016**
Bixby NLU Research Employee of the Month – January 2015

- Reduced time to render the intent of utterance by 75% by implementing a logistic regression model to accept or reject utterance using TriCRF classifier predicted top 3 domains probabilities out of 20 and semantic pattern scores as features in Bixby. Python, SciPy, Numpy, Pandas.
- Implemented Bixby integration with S Health by creating a service to provide voice interface for S Health users to communicate S- Health App functions using Bixby. Andriod.
- Contributed to Phonetic matching feature addition in Bixby en-US culture. Metaphone-3, C++.
- Implemented SVM classifier to identify a text belongs to categories: Call, SMS, Contacts, Memo etc. Java.

Graduate Research Assistant **NLP Lab, Stony Brook University** **Jan 2017-Dec 2017**

- **Project PrIA (Privacy Focused Intelligent Assistance):** Developed a privacy intelligent system that predicts user personality by entity-based sentiment analysis using his/her private data under the guidance of Prof. Niranjan Balasubramanian. Stanford Deep Learning sentiment analysis, Fine-grained entity recognition, AFINN.
- Improved the state-of-the-art performance of AFINN sentiment analysis by label propagating the polarity scores for new words from existing words polarity score.

PROJECTS

Natural Language Processing: Developed a personalized news recommender system that collects user's personal data, builds a profile graph and recommends news articles based on the profile, all locally on the user's personal device. Stanford NER, LDA (Latent Dirichlet allocation), Beautiful soap, Python. (Spring 2017)

Computer Vision: Designed an intelligent system to predict how good an app or game based on its gameplay videos, screenshots, application description and other trivial app-related data with an MSE 0.31. VGG16 Convolution neural network (CNN), Automated essay scoring, JavaScript, Elastic net, Python. (Fall 2017)

Machine Learning: Predicted a match between two online dating profiles of people at eHarmony, Inc with AUC score 66. Exponential Linear Regression. Implemented algorithms like SVM, Linear regression, Ridge regression, Perceptron, K-means in Matlab and Decision Trees to determine whether the visitor view another page on the site or leaves using a set of page views as features in Python with accuracy 74%. (Spring 2017)

Operating Systems: Implemented a system call sys-dedup as loadable kernel module which performs the deduplication of two files. File System, C, Linux Kernel Programming. (Spring 2018)

Network Security: Developed a plug-board proxy to add an extra layer of encryption to connections towards TCP services. OpenSSL, C, Socket programming. Implemented an on-path DNS packet injector and a passive DNS poisoning attack detector. Python, Scapy. (Fall 2017)

LANGUAGES AND TECHNOLOGIES

- C++; Python; C; Java; C#; SQL; Unix Shell Scripting; Matlab; JavaScript; Linux Kernel Programming
- Word2Vec; NLTK; Pandas; SKLearn; Numpy; TensorFlow; Open CV; SciPy;