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 predict top 3 domains out of 20 in Bixby using linear classifier probabilities and semantic pattern scores as features.
- 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.

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.

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 set of page views as features in Python with accuracy 74%.

Data Science: Performed parametric, non-parametric inference testing and Predicted the severity of UK accidents using Machine Learning Techniques with 84% accuracy. Python, Linear Regression.

Network Security: Developed a plugboard 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.

LANGUAGES AND TECHNOLOGIES

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