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

Software Engineer III **Walmart Labs** **July 2018- Present**

- Developing a Backend core to support the Walmart Digital assistant Services such as making API calls and processing the information from bot NLU. Java.

Software Engineer **Samsung Research** **July 2014-Dec 2016**

- 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.
- Developed Number and Phone number criteria handlers in Bixby personal assistant NLU Core. PCRE, C++.
- 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.
- Recipient of Employee of the Month–January 2015 and Spot Award – October 2016 for work expertise.

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. Python.

PROJECTS

Operating System: C, Linux Kernel Programming, Filesystems. (Spring 2018)
Developed a Linux kernel-based system to support per process- based queues for handling file protection, compression, etc synchronously in case of small files and asynchronously for larger files using kernel work queues. It supports protected trash bin for each user, purge their trash bin and periodical trash bin cleaning. Designed and Implemented a stackable filesystem to support secure garbage to lower file system and IOCTL support to undelete the file. Implemented Encryption and Decryption of files to securely protect the files in garbage folder and user level.

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)

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)

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; Perforce; Git;