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 - NLP **Walmart Labs** **July 2018- Present**

- Developed a Backend core to support the Walmart Digital assistant Services such as making API calls and processing the information from bot NLU. Azure, Cosmos Db, Docker, Java.
- Trained entity extraction models to recognize the entities in Digital assistant. Rasa Core & NLU, crf-suite.
- Implemented spell checker algorithm to correct the typo's in the input utterances to improve the accuracy of the Walmart bot. Hunspell, Java.

Senior Software Engineer **Samsung Research** **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++.

Software Engineer **Samsung Research** **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++.

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.

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. Entity Extractor, 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. Implemented algorithms like SVM, Linear regression, Ridge regression, Perceptron, K-means in Matlab and Decision Trees in Python. (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; Azure Cloud;