Praneeth Gubbala

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EMPLOYMENT

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

- Implemented the batch account training model system to reduce the training time of models by 40%. Azure
- Implemented dynamic entities model training and trained entity extraction models to understand the entities. Google BERT, GPU, Seq2Seq, conditional random field, mitite, word embeddings, POS, Databricks, scikit-learn.
- Implemented Intent determination models to recognize the utterance skill in Digital assistant. Docker, Java, Python, Facebook star space and fast text, TensorFlow, spacy, sklearn, SVM, BERT, Azure Batch, Cosmos Db.

Patent: U.S. 62,840,991: "Systems for processing information requests of retail facility workers (Ask Sam)".

Senior Software Engineer **Samsung Research** **Feb 2016-Dec 2016**
Intelligent Services Spot Award – October 2016

- Responsible for Call, SMS, Contacts intent classification models in Bixby of Galaxy S6, S7, S8 mobiles.
- Developed Number and Phone number entity 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 an ML model scaling system to ease up computational linguists tuning activities by cutting 60% evaluation time of intent model using a distributed cluster environment. Perl, HT Condor.
- Contributed to Phonetic matching feature addition in Bixby en-US culture. Metaphone-3, C++.
- Implemented contact disambiguation list ranking using caller frequency, phonetic, full, partial name match, etc.

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.

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)

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 Core NLP, LDA, Beautiful soup, 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. Linear Regression with Exponential features. Implemented algorithms like SVM, Linear, 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)

Data Science: Performed parametric, non-parametric inference testing and Predicted the severity of UK accidents using Multi-class Classifier with 84% accuracy. SciPy, Numpy, Pandas. (Spring 2017)

LANGUAGES AND TECHNOLOGIES

- C++; Python; C; Java; C#; SQL; Shell Scripting; Matlab; JavaScript; Kernel Programming; Cosmos; Databricks FS
- Word Embeddings; NLTK; Pandas; scikit-learn; Numpy; TensorFlow; GPU; Open CV; SciPy; Spacy; Azure; Docker;