Praneeth Gubbala

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EMPLOYMENT

Applied Scientist III - NLP **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 by 96% accuracy. 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;