Praneeth Gubbala

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EMPLOYMENT

Applied Scientist III - NLP **Walmart Labs** **July 2018- Present**

- Implemented an Active learning system to automatically select the training examples from the pool of live user utterances to improve the NLU system performance by 5-7 % in Walmart Scale. Online Learning Vowpal Wabbit.
- Applied dynamic English and Spanish entity extraction model training and Optimization to enable self-service entity extraction models training in Guru Platform for Walmart US, International, Sam's Club US. Autoencoder Language model Google BERT, Conversational Representations from Transformers, GPU, Seq2Seq, A/B Testing.
- Built Intent determination models to predict the utterance skill by above 96% accuracy in Ask Sam English, Spanish Conversational AI. Docker, Java, Python, TensorFlow, Sklearn, Predictive Modeling, AWS, Cosmos Db.

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

Invited Speaker Talk: Rasa Developer Summit 2019 San Francisco, California
Conversational AI in Walmart Natural Language Processing Sept 24, 2019

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

- Improved Bixby NLU latency for some utterances by 60% by implementing a decision-making model to predict the context switch between In-Domains like Call, SMS, and out-Domains like wolfram alpha, web search.

Machine Learning Engineer **Samsung Research** **July 2014-Jan 2016**
Bixby NLP Research Employee of the Month – January 2015

- Built the multiple versions of Bixby English, Spanish NLU (intent classification models in Bixby of Galaxy S6, S7, S8 mobiles), named entity recognition models using supervised machine learning models LSTM, Neural networks, SVM, conditional random filed.
- Predicted the new intents to virtual assistant from the pool of unlabeled big data logs using the k-means clustering algorithm to improve NLU performance by 6-8 %.
- Implemented contacts ranking system on name disambiguation list to enable the Bixby hand free auto-calling.

Graduate Research Assistant **NLP Lab, Stony Brook University** **Jan 2017-Dec 2017**

- **PrIA (Privacy-Focused Intelligent Assistant):** Developed an intelligent privacy system that predicts user personality by entity-based sentiment analysis using their private data under the guidance of Prof. Niranjan Balasubramanian. Deep Learning sentiment analysis, Fine-grained entity recognition, AFINN.

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 knowledge profile graph and recommends news articles based on the profile, all locally on the user's device. Stanford Core NLP. (Spring 2017)

Computer Vision: Built 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. Image Processing, Convolution neural network (CNN), Automated essay scoring. (Fall 2017)

Machine Learning: Predicted a match between two online dating profiles of people at eHarmony, Inc with AUC score 80. Implemented Machine Learning algorithms SVM, Linear, Ridge regression, Perceptron, K-means in Matlab, and Decision Trees in Python for Problems. (Spring 2017)

LANGUAGES AND TECHNOLOGIES

- Python; Java; C++; C; NoSQL; MySQL; Shell Scripting; Matlab; Klein; Kernel Programming; Databricks; Keras
- PyTorch; scikit-learn; Numpy; TensorFlow; Pandas; Open CV; Language modeling; Spacy; Azure; Docker; Rasa