PRANEETH GUBBALA

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EMPLOYMENT

Research Assistant **NLP Lab, Stony Brook University** **Jan 2017 – Present**

- **Project PrIA (Privacy Focused Intelligent Assistance) –** Developing a privacy intelligent system that predicts user personality using his/her privacy data.

Senior Software Engineer **Samsung R&D Institute, Bangalore** **Feb 2016-Dec 2016**

Intelligent Services

- Implemented LSTM based classifier for Call, SMS, Contacts domains in Bixby personal assistant.
- Developed Number and Phone number criteria handlers in NLU Core.
- Implemented Catchall criteria handler with minimum rules using word embedding. Word2vec.
- Implemented Context Switching in S Voice by using Stanford deterministic co-reference system to recognize pronouns from follow-up utterance reference to root utterance uttered by user to S Voice.

Software Engineer **Samsung R&D Institute, Bangalore** **May 2014-Jan 2016**

S Voice NLU Research

- Reduced time to render the intent of utterance by 75% by implementing a logistic regression model to predict top 3 domains out of 20 in S Voice using classifier probabilities and semantic pattern scores as feature vectors.
- Implemented S Voice integration with S Health by creating a service to provide voice interface for S Health users to communicate S- Health App functions using S Voice.
- Developed a SLT automation tool that will ease up computational linguists tuning activities in Intent Evaluation in S Voice NLU using distributed Environment. Perl, UNIX shell scripts, HT Condor.
- Worked on Cache NLU in S Voice to decrease the NLU Intent time for response by 30%.
- Contributed to Phonetic matching feature addition in S Voice en-US. Metaphone-3.
- Implemented SVM classifier to identify a text belongs to categories: Call, SMS, Contacts, Memo etc.
- Responsible for Call, SMS domains development in Commercialized S Voice of Galaxy S6, S7 mobiles.

EDUCATION

Stony Brook, New York **Stony Brook University** **Jan 2017 – Present**

- MS in Computer Science
- Graduate Coursework: Machine Learning; Natural Language Processing; Probability and Statistics for Data Science;

Hyderabad, India **Osmania University** **Oct 2010 – May 2014**

Bachelor of Engineering in Computer Science Engineering Percentage: 81%

PROJECTS

- **Personalized News Recommender System**: Developed a recommender system that collects user's personal data, builds a profile, and recommends news articles based on the profile, all locally on the user's personal device. Stanford NER, Latent Dirichlet allocation, Python. (Spring 2017)
- **Natural Language Processing:** Entity based sentiment analysis on news articles from user web history. Fine grained Entity Recognition, Metamap, SentiWordNet, Python. (Spring 2017)
- **Machine Learning:** Predicted a match between two online dating profiles of people at eHarmony, Inc with AUC score 66. Exponential Linear Regression, Matlab. (Spring 2017)
- **Data Science:** Predicted the severity of UK accidents using Machine Learning Techniques with 84% accuracy. Python, Linear Regression. (Spring 2017)

LANGUAGES AND TECHNOLOGIES

- C++; Python; C; Java; C#.NET; SQL; Shell Scripting; Matlab;
- Word2Vec; NLTK;

AWARDS AND ACHIVEMENTS

- Employee of the Month – January 2015 and Spot Award – December 2016 in Samsung R & D Institute India.
- Recipient of a Merit Scholarship by Government of India to purse Undergraduate Program. (2010-2014)