# Praneeth Gubbala

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## EDUCATION

**Stony Brook University** — **Stony Brook, New York**
Master of Science in Computer Science — Expected May 2018
Courses: Machine Learning; Natural Language Processing; Data Science; Artificial Intelligence; Network Security; Introduction to Probability and Statistics

**Osmania University** — **Hyderabad, India**
Bachelor of Engineering in Computer Science — May 2014
Courses: Data Structures and Algorithms; Operating Systems; Automata Theory; Databases

## EMPLOYMENT

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

- Handled Number and Phone number criteria handlers in S Voice NLU Core. PCRE.
- 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 linear classifier probabilities and semantic pattern scores as features.
- 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. Android
- Contributed to Phonetic matching feature addition in S Voice en-US culture. Metaphone-3.
- Implemented SVM classifier to identify a text belongs to categories: Call, SMS, Contacts, Memo etc.
- Responsible for Call, SMS, Contacts domains development in Commercialized S Voice of Galaxy S6, S7, S8 mobiles.
- Developed a SLT automation script 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 by proving quick response from cache.
- Software Developer for en-US, en-GB, en-IN and es-US Localizations and Bug fixer for other cultures. Major coding done in C++.

**Graduate 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 under the guidance of Prof. Niranjan Balasubramanian.
- As part of entity based sentiment analysis, political lineage of user is predicted by using Stanford sentiment analysis and Fine-grained Entity Recognition from news articles of user web history.

## 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 NER, Latent Dirichlet allocation, Python.

**Machine Learning:** Predicted a match between two online dating profiles of people at eHarmony, Inc with AUC score 66. Exponential Linear Regression. Implemented algorithms like SVM, Linear regression, Ridge regression, Perceptron, K-means in Matlab.

**Data Science:** Performed parametric, non-parametric inference testing and Predicted the severity of UK accidents using Machine Learning Techniques with 84% accuracy. Python, Linear Regression.

## LANGUAGES AND TECHNOLOGIES

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

- Word2Vec; NLTK; Pandas; Numpy; TensorFlow; Pandas; Android;

## HONORS

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