

# Praneeth Gubbala

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## EDUCATION

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### Stony Brook University

Master of Science in Computer Science

Courses: Machine Learning; Natural Language Processing; Data Science; Artificial Intelligence; Network Security; Introduction to Probability and Statistics

Stony Brook, New York

Expected May 2018

### Osmania University

Bachelor of Engineering in Computer Science

Courses: Data Structures and Algorithms; Operating Systems; Automata Theory; Databases

Hyderabad, India

May 2014

## EMPLOYMENT

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### Senior Software Engineer

Samsung R&D Institute, Bangalore

Feb 2016-Dec 2016

- Implemented LSTM based classifier for Call, SMS, Contacts domains in Bixby personal assistant.
- Developed Number and Phone number criteria handlers in Bixby NLU Core. PCRE.
- Implemented context switching in Bixby by using Stanford deterministic co-reference system to recognize pronouns from follow-up utterance reference to root utterance uttered by user to Bixby.

### Software Engineer

Samsung R&D Institute, Bangalore

May 2014-Jan 2016

- 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 Bixby using linear classifier probabilities and semantic pattern scores as features.
- Implemented Bixby integration with S Health by creating a service to provide voice interface for S Health users to communicate S- Health App functions using Bixby.
- Contributed to Phonetic matching feature addition in Bixby en-US culture. 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 Bixby of Galaxy S6, S7, S8 mobiles.

### 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

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**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

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

## HONORS

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- 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 pursue Undergraduate Program (2010-2014).