

# Praneeth Gubbala

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## EDUCATION

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<b>Stony Brook University</b> Master of Science in Computer Science	<b>Stony Brook, NY</b> Winner of Bloomberg Code Con–SBU 2017	<b>Jan 2017-May 2018</b>
<b>Osmania University</b> Bachelor of Engineering in Computer Science	<b>Hyderabad, India</b> National Merit Scholar (2010-14)	<b>Oct 2010-May 2014</b>

## EMPLOYMENT

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<b>Senior Software Engineer</b> Intelligent Services	<b>Samsung R&amp;D Institute, Bangalore</b>	<b>Feb 2016-Dec 2016</b> Spot Award – October 2016
<ul style="list-style-type: none"><li>Responsible for Call, SMS, Contacts domains semantic pattern-based classifier accuracy in Commercialized Bixby of Galaxy S6, S7, S8 mobiles.</li><li>Developed Number and Phone number criteria handlers in Bixby personal assistant NLU Core. PCRE, C++.</li><li>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 the user to Bixby. Java.</li></ul>		
<b>Software Engineer</b> Bixby NLU Research	<b>Samsung R&amp;D Institute, Bangalore</b>	<b>July 2014-Jan 2016</b> Employee of the Month – January 2015
<ul style="list-style-type: none"><li>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.</li><li>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. Android.</li><li>Contributed to Phonetic matching feature addition in Bixby en-US culture. Metaphone-3, C++.</li><li>Implemented SVM classifier to identify a text belongs to categories: Call, SMS, Contacts, Memo etc. Java.</li></ul>		
<b>Graduate Research Assistant</b>	<b>NLP Lab, Stony Brook University</b>	<b>Jan 2017-Dec 2017</b>
<ul style="list-style-type: none"><li><b>Project PriA (Privacy Focused Intelligent Assistance):</b> Developed a privacy intelligent system that predicts user personality by entity-based sentiment analysis using his/her private data under the guidance of Prof. Niranjana Balasubramanian. Stanford Deep Learning sentiment analysis, Fine-grained entity recognition, AFINN.</li><li>Improved the state-of-the-art performance of AFINN sentiment analysis by label propagating the polarity scores for new words from existing words polarity score.</li></ul>		

## 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, LDA (Latent Dirichlet allocation), 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. Exponential Linear Regression. Implemented algorithms like SVM, Linear regression, 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)

**Network Security:** Developed a plug-board proxy to add an extra layer of encryption to connections towards TCP services. OpenSSL, C, Socket programming. Implemented an on-path DNS packet injector and a passive DNS poisoning attack detector. Python, Scapy. (Fall 2017)

## LANGUAGES AND TECHNOLOGIES

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- C++; Python; C; Java; C#; SQL; Unix Shell Scripting; Matlab; JavaScript; Linux Kernel Programming
- Word2Vec; NLTK; Pandas; SKLearn; Numpy; TensorFlow; Open CV; SciPy;