**Praneeth Gubbala**

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**EDUCATION**

**Stony Brook University Stony Brook, New York** Master of Science in Computer Science Expected Dec 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; Databases National Merit Scholar (2010-14)

**EMPLOYMENT**

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

Intelligent Services Spot Award– October 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, C++.
* 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**

Bixby NLU Research Employee of the Month–January 2015

* 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. Andriod.
* Contributed to Phonetic matching feature addition in Bixby en-US culture. Metaphone-3, C++.
* Implemented SVM classifier to identify a text belongs to categories: Call, SMS, Contacts, Memo etc. Java.
* Responsible for Call, SMS domains intent detection 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 Deep Learning sentiment analysis Deep Moving 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, LDA (Latent dirichlet allocation), Beautiful soap, 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;

**HONORS**

* Winner of Bloomberg Code Con – Stony Brook 2017 Qualifier. Handle: Enlightened Scallion.