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; 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

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.