

PRANEETH GUBBALA

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EDUCATION

Stony Brook, New York STONY BROOK UNIVERSITY Jan 2017 – Present

Computer Science MS

GPA:

Spring'17 Courses: Machine Learning; Introduction to Natural Language Processing; Probability and Statistics for Data Science;

Hyderabad, India Osmania University Oct 2010 – May 2014

Bachelor of Engineering in Computer Science Engineering Percentage: 81%

WORK EXPERIENCE

Senior Software Engineer

Samsung R&D Institute

Feb 2016-Dec 2016

Intelligent Services

- Implemented Deep Learning Based LSTM for classification along with Number, Phone number criteria handlers in NLU Core.
- Implemented Catchall criteria with minimum rules using word embedding. Word2vec.
- 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. This was Awarded Third Prize in NLU Projects by Samsung Head Quarters Seoul.

Software Engineer

Samsung R&D Institute

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 SNLU + RNLU Feature Vectors.
- 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.
- Developed a SLT automation tool that will ease up computational linguists tuning activities in Intent Evaluation in S Voice NLU using distributed Environment. Perl, UNIX shell scripts, HTCondor.
- Implemented Cache NLU in S Voice to decrease the NLU Intent time for response by 30%.
- Software Developer for en-US, en-GB, en-IN and es-US Localizations, QA and Bug fixer for other cultures. Major coding done in C++.
- Responsible for Call, SMS domains development in Commercialized S Voice of Galaxy S6, S7 mobiles.
- Implemented Trie for Web Interface V 30(S-voice server apk) where App developers can make their applications voice enabled in 30 sec. Java, Couchbase.

TECHNICAL SKILLS

Languages and Technologies

- C++; C; Java; C#.NET; SQL; Perl; JavaScript; HTML; Python; UNIX shell scripts; MATLAB;
- Visual Studio; Eclipse;

ACADEMIC PROJECTS

- **Prayoga.** Statistical NLU Engine which uses SVM classifier to identify a text belongs to categories: Alarm, Calendar, Memo etc. and question type to the category: Who, What, When, Affirmation etc. Java, SVM, Python.
- **Natural Language Dialog Management System.** Built a Chatbot for restaurant reservations, modules are Named Entity Recognition, QA for information retrieval and SQL database.
- **Personalized Image Recommendation.** Built a system for filtering tumblr Image Search results based

on tag and vision feature vectors to provide more accurate results to user. Java, MYSQL. Scored 9/10 credits.

RELEVANT COURSES

- Artificial Intelligence; Data Structures; Databases; Algorithms; Programming Languages; Operating Systems; Automata Theory; Software Engineering; Probability and Statistics;

CERTIFICATIONS

- Andrew Ng – Stanford University Machine Learning course in Coursera.
- Cisco CCNA (Cisco Certified Network Associate) Exploration Modules.
- MEC Course on Analysis and Design of Algorithms.

HONORS

- **Employee of the Month**–January 2015 and **Spot Award**– December 2016 in **Samsung R & D** Institute India.
- Recipient of a **Merit Scholarship** by Government of India to pursue Undergraduate Program (2010-2014).
- Secured Town **First Rank** in Class X.