**Praneeth Gubbala**

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**EDUCATION   
Stony Brook University, USA**  May 2017  
*Master of Science - Computer Science ­*

**Osmania University, India**  June 2014  
*Bachelor of Engineering - Computer Science*  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**WORK EXPERIENCE**

**Microsoft Corporation** June 2014 – May 2016

*Service Engineer*

As a developer for Microsoft Azure's Site Reliability Engineering, my primary responsibility was to identify software gaps in operations management and design and build relevant version 1.0 applications. As part of this role, I

* Designed and developed a mobile app (Windows and Android) to remotely track service outage investigations.
* Designed and developed a .NET application to automate RMA workflows for Microsoft's Edge network servers.
* Designed and developed a chatbot on Lync UCMA platform that assists in Azure's outage investigations.
* Worked as a Crisis Manager to redesign operational workflows for Azure's Cloud Reliability Operations.

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**SUMMARY OF SKILLS**

***Proficiency:*** Python, MS SQL, Machine Learning with SKLearn, MS .NET 4.5

***Experience:*** Java, C#, JavaScript, Apache Spark, TensorFlow, MS Azure, Numpy, SciPy, NLTK, D3.js, Pandas

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**PROJECTS**

**Semantic Relation Extraction in Biomedical Natural Language Data** February 2017 – present

* Constructing an e2e NLP pipeline for cross-document relation extraction in medical research papers.
* Performed a comparative study of existing Biomedical Named Entity Recognition tools.
* Constructing an API to query Named Entities from more than 10 million biomedical research papers.

**Assessing Climate Vulnerability through Interactive Visual Analytics** March 2017 – May 2017

* Developed interactive visual interfaces using D3.js and Web GL to educate beginners about climate risk.
* Built predictive models with SKLearn to forecast climate vulnerability indices across countries and causal factors.
* Applied concepts like K-Means Clustering, Time Series Plots, Parallel Coordinates, Dimensionality Reduction.

**Predicting the Star Cast of Hollywood Movie Remakes** October 2016 – December 2016

* Developed a novel scoring function that establishes probabilistic similarities between Hollywood actors.
* Performed nearest neighbors analysis to predict best replacements for original cast in Hollywood remakes.
* Performed data extraction, cleaning and analysis on an exhaustive data set of more than 1 million actors’ profiles.

**Analysis of Artificial Neural Networks for Supervised Learning** October 2016 – December 2016

* Performed mathematical analysis of various artificial neural networks employed to solve classification problems.
* Tested their performance to identify potential credit card defaulters with an achieved accuracy of 85%.

**Spatio-Temporal Analysis of New York City TLC Data**  October 2016 – December 2016

* Analyzed 90 GB of data obtained from cab rides across New York City using Spark and AWS Elastic Map Reduce.
* Applied Large Scale ML methods to extract insights from commuting patterns in urban communities.

**A Map Reduce Back-end in Python** September 2016- October 2016

* Built a map reduce backend in Python that performs simple operations like matrix multiplication, relational operations in set theory and basic document analysis.