

# Praneeth Gubbala

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## EMPLOYMENT

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| <b>Senior Machine Learning Scientist</b>   | <b>Walmart Labs</b>                    | <b>June 2020-Present</b>                   |
| <ul style="list-style-type: none"><li>Developed a transformer model architecture to recognize the multiple (1-10) products and its facets through entity extraction and linking for Walmart's voice re-order system. Multi-Head Attention, XLNET, GPT-2, Roberta, Distil Bert, Hugging Face.</li></ul>   |  |  |
| <b>Speaker Talk:</b> Walmart Data Science Community of Practice 2020<br>GURU Platform: Conversational AI as a Service  |  | Remote<br>July 21, 2020                    |
| <b>Applied Scientist III - NLP</b>   | <b>Walmart Labs</b>                    | <b>Jul 2018- May 2020</b>                  |
| <ul style="list-style-type: none"><li>Implemented an Active learning system to automatically select the training examples from the pool of live user utterances to improve the text classification system performance by 5-7 % in Walmart Scale. Online Learning, Vowpal Wabbit.</li><li>Deployed dynamic English and Spanish named entity extraction model training and Optimization to enable self-service entity extraction models training in Guru Platform for Walmart US, International, Sam's Club US. Autoencoder Language model Google BERT, Conversational Representations from Transformers, GPU, Sequence to Sequence, A/B Testing.</li><li>Built Intent determination models to predict the utterance skill by above 98% F1 score in Ask Sam English, Spanish Conversational AI. Deep Neural Networks, Transformers, TensorFlow, Predictive Modeling.</li></ul> |  |  |
| <b>Patent:</b> U.S. 62,840,991: "Systems for processing information requests of retail facility workers (Ask Sam)."  |  |  |
| <b>Invited Speaker Talk:</b> Rasa Developer Summit 2019<br>Conversational AI in Walmart Natural Language Processing  |  | San Francisco, California<br>Sept 24, 2019 |
| <b>Senior Machine Learning Engineer</b>  | <b>Samsung Research</b>                | <b>Feb 2016-Dec 2016</b>                   |
| Intelligent Services   |  | Spot Award – October 2016                  |
| <ul style="list-style-type: none"><li>Improved Bixby NLU latency for some utterances by 60% by implementing a decision-making model to predict the context switch between In-Domains like Call, SMS, and out-Domains like wolfram alpha, web search.</li></ul>   |  |  |
| <b>Machine Learning Engineer</b>   | <b>Samsung Research</b>                | <b>July 2014-Jan 2016</b>                  |
| Bixby NLP Research   |  | Employee of the Month – January 2015       |
| <ul style="list-style-type: none"><li>Built the multiple versions of Bixby English, Spanish intent classification models (in Bixby of Galaxy S6, S7, S8 mobiles), named entity recognition models using supervised machine learning model algorithms Bi-LSTM, Neural networks, SVM, conditional random field</li><li>Predicted the new intents to virtual assistant from the pool of unlabeled big data logs using the k-means clustering algorithm to improve Query Understanding performance by 6-8 %.</li><li>Implemented contacts ranking system on name disambiguation list to enable the Bixby hand free auto-calling.</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>PrIA (Privacy-Focused Intelligent Assistant):</b> Developed an intelligent privacy system that predicts user personality by entity-based sentiment analysis using their private data under the guidance of Prof. Niranjana Balasubramanian. Deep Learning sentiment analysis, Fine-grained entity recognition, AFINN.</li></ul>   |  |  |

## EDUCATION

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

## LANGUAGES AND TECHNOLOGIES

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- Python; Java; C++; C; NoSQL; MySQL; Shell Scripting; Klein; Kernel Programming; Databricks; Keras; Open CV.
- PyTorch; TensorFlow; Language modeling; Spacy; Azure; Cosmos Db; scikit-learn; Sklearn; AWS; Docker; Rasa.