

## Education

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College Station, TX	Texas A&M University	Aug 2019 – May 2021 (expected)
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- M.S. in Computer Science. GPA: 4.0/4.0
- Thesis: Detecting review hijacking on e-commerce listings (Advisor: Dr. James Caverlee)
- Coursework: Deep Learning, Data Mining, Information Retrieval, Machine Learning, Software Engineering

Surat, India	National Institute of Technology, Surat	Jul 2010 – May 2014
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- B.Tech. in Computer Science. GPA: 8.38/10
- Research Seminar: Critical analysis of Semantic Search algorithms, Dec 2013 (Advisor: Dr. Rupa Mehta)

## Employment

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ML SDE Intern	Amazon	Jun 2020 – Aug 2020
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- Worked with Selling Assistant (SA), a intent detection and solution recommendation system for seller queries
- Enabled multi-language intent detection in SA by using neural machine translation, bringing support for additional 23K cases/day (30% increase in number of cases supported) and an estimated increase of \$147.5K in savings annually

Lead Engineer	Samsung Research	Jun 2014 – Nov 2018
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- **Bixby Voice Assistant:** Trained a neural network to get intents from the voice queries of Indian users and mapped to Bixby actions, improving the action response accuracy for non-native English speakers by 60%
- Initiated and presented weekly learning sessions on ML to reinforce concepts and boost team performance
- **Project Lead:** Led complete development life-cycle of 8 different android devices, from conceptualization to implementation. Received 'Excellence award' for completing first HD Android Go phone in record time
- Collaborated with teams in India, South Korea, UAE, Turkey, South Africa, Israel and other regional offices to enhance phone features for 30+ countries in Middle-east Asian and African region
- **Telephony Framework:** Developed new roaming features, IMEI trackers and emergency features to improve accessibility, functionality and security in the calling framework across the entire Samsung lineup

Research Intern	National Institute of Technology, Surat	May 2013 – Jul 2013
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- Worked with Dr. Dhiren Patel on the feasibility of malware and intrusion detection from the host system itself in a multi-VM cloud computing environment

## Projects

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- **Thesis: Detecting review hijacking on e-commerce listings** (Jan 2020 - Cur). Analysing 130M+ customer reviews on [Amazon public dataset](#) to detect fraudulent patterns. Finetuned BERT on Next sentence prediction task with product details and reviews as pairs to detect off topic reviews (BERT, Bigdata, NLP, Text Mining)
  - **Propaganda detection in News articles** (Sep 2019 - Cur). Used pre-trained BERT, LSTM and Passive Aggressive classifiers to identify Propagandistic elements in News media with a 0.91 F1 score on SemEval dataset. Submitted to [SemEval at COLING 2020](#) Conference. (Tensorflow, BERT, Deep learning, NLP)
  - **Text Classification - CNN vs RNN vs LSTM** (Sep - Dec 2019). Comparison of different neural net architectures for text classification tasks on basis of time, F1-score, accuracy and analyzing the model learned. (Tensorflow, NLP)
  - **Automated translation of Programming languages** (Jan - May 2014). Converted code between Java and C++ using rule based Expert system producing compilable and functional code in both languages (AI, Expert systems, Python)

## Technical Skills

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**Languages:** Python, Java    **AWS:** EMR, Sagemaker, S3    **Tools/Frameworks:** Jupyter, Tensorflow, PyTorch, Keras, Matlab, Numpy, Pandas, Linux, Git, PySpark, Ruby on Rails, NLTK