

Abishek Prasanna

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- Interests: Cloud Computing, Systems Design, ML applications, NLP, Conversational AI, and Recommendation Systems.
- 3 yrs experience in areas like Voice Assistant Apps, End-to-End Embedded Apps, & Python SW engg. for IoT products.
- Demonstrated ability for project management, product delivery & deployment. Open to full-time offers starting Sept '19.

Education

- **Rutgers University** **New Jersey, USA**
○ *Master of Science in Computer Science, Machine Learning track, GPA : 3.70/4.00* *Aug '17–May '19*
- **National Institute of Technology Trichy** **Trichy, India**
○ *Bachelor of Technology in Computer Science and Engineering, CGPA : 7.90/10.00* *Jul '11–Aug '15*

Skills

- **Programming Languages & Frameworks:** Python, C, C++, SQL, Flask, Javascript, NodeJS, Cloud platforms
- **Libraries & Toolkits:** PyTorch, Keras, NLTK, Spacy, Numpy, Hadoop
- **Languages:** English, Tamil, Malayalam, Hindi
- **Other Tools:** Rasa (NLU, Core), Valgrind, Git, GDB, FFmpeg

Professional Experience

- **Samsung Research Institute Bangalore (w./ Samsung SmartThings, USA)** **Bangalore, India**
○ *Intelligence & IOT Division, Senior Software Engineer* *Aug '15–Aug '17*
 - * Trained, Maintained & Deployed Deep Neural nets for NLU in Samsung Bixby Voice Assistant (like SIRI).
 - * Data generation from grammar and preparation for training deep nets.
 - * Developed embedded driver application for Smart Home Hub enabling mobile surveillance through clips and live stream.
 - * Decentralized video-processing & security services to reduce latency in live-stream routing from cameras to mobiles.
- **Samsung Research Institute Bangalore** **Bangalore, India**
○ *Wireless Networks Division, Student Intern* *May '14–Jul '14*
 - * Surveyed energy consumption in Bluetooth, Bluetooth Smart, and Zigbee on a point-to-point network

Research Experience

- **Summer Research Assistant, Rutgers University** **May '18–Aug '18**
○ *Cancelable Biometrics: Learning repeatable non-invertible representations for biometrics data privacy*
- **Undergraduate Research Assistant, B.Tech Thesis** **Jan '15–May '15**
○ *Community membership identification using seed set expansion with an adaptive PageRank algorithm*

Projects

- **Paper Impln - A Recurrent Latent Variable Model for Sequential Data ,J.Chung '15** **Aug '18–Jan '19**
○ *Deep Generative model applied to text generation by adding latent vbles to RNNs - Variational RNN*
- **One-Shot Text Summarization with Attention based Seq2Seq encoder-decoder network** **Mar '18–May '18**
○ *French summarization by learning shared representation on Engl. summarization & French translation*
- **Product Recommender system for efficient similarity join with Map-Reduce model.** **Jan '18–Apr '18**
○ *DIMSUM algorithm on Amazon Products data for fast recommendation based on all-pairs similarity*
- **Biological Neuron Spike Sorting and Clustering Analysis (Cocktail party problem)** **Oct '17–Dec '17**
○ *Comparison of manifold learning & traditional clustering approaches in distinguishing neuron spikes*

Awards and Honors

- **Student Travel Grant, First Nepal Winter School in AI 2018**
*Served as TA and Lab instructor in the 10-day **Nepal Winter School in AI** introducing students to AI research.*
- **Best Hack for Good, iCIMS Halloween Hackathon 2018**
*Built **Inclusive.ai**, a Messenger Chatbot with third party APIs to spread awareness on inclusion in AI research*
- **All India Engineering Entrance Exam 2011**
*Secured All India Rank **6100** among 110,000 students*
- **Special Merit List, All India Senior Secondary Exams 2009**
*Placed in the top **0.1%** among all Indian students.*

Extra-curriculars

- **Professionally trained Carnatic/Indian classical singer**
Performed on TV, Radio, 30+ programs, competitions etc
- **Member of RU Cog Sci Club, Rutgers University**
Conduct weekly forums to discuss, learn and share ideas in Cognitive Science, Philosophy and Psychology.
- **Co-ordinator of Campus Placement Committee, NIT Trichy**
Taught algorithms and competitive coding techniques as a personal mentor for a batch of juniors.
- **Secretary of Office of Alumni Relations, NIT Trichy**
Improved Alumni engagement and organized Bangalore chapter.