

Anjishnu Kumar

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| EDUCATION | Columbia University in the City of New York Master of Science, Computer Science, Advisors: <i>Michael Collins & Peter Belhumeur</i> | December 2014 GPA: 3.97/4.00 |
| | Birla Institute of Technology and Science, Pilani, India Bachelor of Engineering (with Honours) Chemical Engineering | March 2013 First Division |
| SKILLS | Primary Tools: Python, Java, C, C++, Linux Frameworks: Scikit-Learn, Keras, MxNet, AWS, Apache Spark, ElasticSearch, Android Familiar With: MATLAB/Octave, R, Scala, JavaScript, SQL, HTML/CSS | |
| EXPERIENCE | Amazon Alexa – Applied Scientist II, Seattle & Cambridge (UK) Built the machine learning framework behind the Alexa Skills Kit (ASK) Voice SDK. Currently working on open domain question answering. 7 patents filed. | Feb 2015 - Onwards |
| | The Huffington Post – Data Scientist (Intern), New York, NY Architected a memory efficient state-of-the art opinion mining system using recursive neural networks. | September - Dec 2014 |
| | Amazon – Research Scientist (Intern), Cambridge, MA Machine learning and probabilistic data structures for data compression. 1 patent filed. | May 2014 - August 2014 |
| | Electronic Arts - Software Engineer (Intern), Hyderabad, India Built the Java backend infrastructure in to serve push notification advertising to Amazon’s FireOS devices. | January 2013 - June 2013 |
| SELECTED PROJECTS | Software Project Portfolio: https://github.com/anjishnu Alexa Skills Kit Spoken Language Understanding Platform Built the NLU Model building pipeline that powers the Alexa Skills Kit, my code has deployed over 25,000 spoken language understanding subsystems into production and serves as the foundation of a deployed AWS service – Amazon Lex . Tech lead for skill invocation and skill discovery . Neural Zero-Shot Learning Research in deep learning based zero-shot learning techniques for domain and intent selection tasks. <i>Published as "Zero-Shot Learning across Heterogeneous Overlapping Domains." In Proc. Interspeech 2017.</i> Conditional Random Field Model Compression Used a combination of voronoi iteration, weight quantization, probabilistic data structures and feature hashing to compress and accelerate conditional random field structured prediction models, leading to a 99% size compression and a 30% speed acceleration , with no degradation in accuracy . Alexa Skills Kit Python Client Built ask-alexa-pykit the first python client for the Alexa Skills Kit SDK as a side project outside of work. Built a demo skill using the client which was selected and deployed as Twitter’s official alexa skill . | |
| MISC | <ul style="list-style-type: none">- Awarded the Amazon Inventor Award for contributing to patentable IP. 8 patent applications pending with the USPTO in fields of Recommendation Systems, NLP, Question Answering and Speech Recognition.- One of 50 students awarded the Start@aStartUp Fellowship by Sequoia Capital in 2014.- Selected as a delegate of India for the Harvard Project for Asian and International Relations in 2011.- Awarded the prestigious National Talent Search Scholarship. Awarded to 1000 out of 1.5 million candidates.- GRE: 336/340, Quantitative: 168/170, Verbal: 168/170, Analytical: 5.5/6.- Certificate of Merit at the 9th National Science Olympiad (India Rank 133). | |