

# Ashish Gupta

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INTERESTS	Machine Learning, Natural Language Processing, Information Extraction, Information Retrieval, Reinforcement Learning
EDUCATION	<p><b>IIIT Bangalore</b>, Bangalore, Karnataka</p> <ul style="list-style-type: none"><li>▪ M.Tech in IT with specialisation in Data Science Jul 2016 – Jul 2018<ul style="list-style-type: none"><li>• Thesis: Question Answering using Video transcripts</li><li>• Adviser: Prof. Manish Gupta</li><li>• Focus: Information Retrieval, Information Extraction, Videos, Attention Mechanism, Bidirectional LSTM, Distant Supervision, Differential Weighing</li><li>• Cumulative GPA: 3.57 / 4.0</li></ul></li></ul> <p><b>SRMCEM</b>, Lucknow, Uttar Pradesh</p> <ul style="list-style-type: none"><li>▪ B.Tech in CSE Aug 2008 – Jun 2012<ul style="list-style-type: none"><li>• Deans List for 3 years.</li><li>• Percentage: 75.08</li></ul></li></ul>
RELEVANT EXPERIENCE	<ul style="list-style-type: none"><li>▪ <b>Reviewer of IR Journal: Learning from User Interactions</b> Jun 2019 – Present</li></ul> <p><b>Data Scientist</b></p> <ul style="list-style-type: none"><li>▪ <b>Walmart Labs India</b>, Kadubeesanhalli,Bangalore Jul 2018 – Present<ul style="list-style-type: none"><li>• Working in the Catalog Data Science team.</li><li>• Used deep learning models like CNN, LSTM, Bi-LSTM CRF for attribute extraction from text.</li><li>• Developed a Smart normalization tool to match the non-standard/junk text present in the catalog to the standard text.</li><li>• Used Semi-Supervised Learning to reduce the tagging data and build efficient models with limited data.</li><li>• Worked on BERT based models for classification and sequence labeling in Multi-lingual models.</li><li>• Worked on jointly leveraging strong supervision data along with weak supervision data to train neural models.</li></ul></li></ul> <p><b>Research Assistant</b></p> <ul style="list-style-type: none"><li>▪ <b>VideoKen Software Pvt. Ltd</b>, IIIT Bangalore Innovation Centre Jan 2018 – Jun 2018<ul style="list-style-type: none"><li>• Worked on Question Answering from Video subtitles. Used Attention Mechanism, Bidirectional LSTM, self-attention and did meaningful bifurcations of the raw text to complete the task.</li></ul></li></ul> <p><b>Teaching Assistant</b></p> <ul style="list-style-type: none"><li>▪ <b>IIIT Bangalore</b>, Opposite Infosys Gate 1 Jan 2018 – Jun 2018<ul style="list-style-type: none"><li>• Teaching Assistant for Courses Maths for ML and Machine Learning 1 under Prof. G. Srinivasaraghavan and Prof. Dinesh Babu Jayagopi</li></ul></li></ul> <p><b>Systems Engineer</b></p> <ul style="list-style-type: none"><li>▪ <b>Tata Consultancy Services</b>, Kolkata, India Nov 2012 – Jun 2016<ul style="list-style-type: none"><li>• Worked in Oracle apps (an ERP tool) as an OTR consultant. Worked in GE Healthcare projects.</li><li>• Worked in SCM(Supply Chain Management), Purchase Order and Order Management modules of Oracle apps.</li><li>• Worked in project Germany LCS Project, WIPROGE LE Merger, Oracle R12 upgrade where I made and updated some of the custom PL/SQL codes.</li></ul></li></ul>
PUBLICATIONS	<p>CONFERENCES</p> <ul style="list-style-type: none"><li>▪ <b>Learning with Limited Labels via Momentum Damped Differentially Weighted Training</b><ul style="list-style-type: none"><li>• Rishabh Mehrotra, Ashish Gupta in KDD 2020.</li></ul></li><li>▪ <b>Joint Attention Neural Model for Demand Prediction in Online Marketplaces</b><ul style="list-style-type: none"><li>• Ashish Gupta, Rishabh Mehrotra in NLDL 2020.</li></ul></li><li>▪ <b>Sequence-aware Reinforcement Learning over Knowledge Graphs</b><ul style="list-style-type: none"><li>• Ashish Gupta, Rishabh Mehrotra in RecSys REVEAL 2019.</li></ul></li><li>▪ <b>Neural Attention Reader for Video Comprehension</b><ul style="list-style-type: none"><li>• Ashish Gupta, Rishabh Mehrotra, Manish Gupta in KDD Deep Learning Day 2018.</li></ul></li></ul>

PATENTS	<ul style="list-style-type: none"> <li>▪ <b>ReMAADE (REINFORCE with Masked Attention Auto-regressive Density Estimators)</b> <ul style="list-style-type: none"> <li>• Chepurishri Krishna, Amit Agarwal, Ashish Gupta, Swarnim Narayan, Himanshu Rai and Diksha Manchanda</li> </ul> </li> <li>▪ <b>Ultron-AutoMLv2: a distributed framework for efficient hyper-parameter optimization (HPO) of ML models</b> <ul style="list-style-type: none"> <li>• Chepurishri Krishna, Amit Agarwal, Ashish Gupta, Swarnim Narayan, Himanshu Rai, Varun Mishra, Abhinav Rai, Chandrakant Bharti, Gursirat Singh and Nitinraj Balajisingh</li> </ul> </li> </ul>
BLOGS	<ul style="list-style-type: none"> <li>▪ <b>An Introduction to Meta-Learning</b></li> <li>▪ <b>Introduction to Reinforcement Learning</b></li> </ul>
PROJECTS	<p><b>Deep Recurrent Generative Decoder for Abstractive Text Summarization</b> (EMNLP 2017) Sequence to sequence oriented encoder decoder model with attention mechanism and variational auto encoders.</p> <ul style="list-style-type: none"> <li>▪ Novel approach to text summarization with GRU and attention mechanism. Oct 2019 – Dec 2019</li> </ul> <p><b>Hierarchical Attention Networks for Document Classification</b> Implementation of Hierarchical Attention Networks paper NAACL 2016.</p> <ul style="list-style-type: none"> <li>▪ Movie reviews from IMDB dataset are used for prediction. Mar 2018 – Mar 2018</li> </ul> <p><b>Image-based-recommendations,</b> Guide:- Prof. Dinesh Babu Jayagopi</p> <ul style="list-style-type: none"> <li>▪ Recommending apparels to users based on their choice and the complementary products.This work was done on a subset of Amazon dataset. Mar 2017 – May 2017</li> </ul>
ACHIEVEMENTS / CO-CURRICULAR ACTIVITIES	<ul style="list-style-type: none"> <li>▪ Top 12%(Placed 30 out of 252 teams) in KDD 2019   Policy Learning for Malaria Control - Maximize rewards for malaria prevention sequential decision making task.</li> <li>▪ Top 20%(Placed 303 out of 1571 teams) in Google QUEST Q&amp;A Labeling - Improving automated understanding of complex question answer content.</li> <li>▪ Top 3%(Placed 94 out of 4037 teams) in Quora Insincere Question Classification - To identify and flag insincere questions in Quora.</li> <li>▪ Top 1.4%(Placed 28 out of 2000 teams) in Microsoft AI India Challenge 2018 - Ranking passage according to relevance containing answer to a given question.</li> <li>▪ Achieved AIR 56 in ISRO Scientist/SC exam(July'16).</li> <li>▪ Qualified GATE'16 with 98.8 percentile(Feb'16).</li> </ul>
AWARDS & SCHOLARSHIPS	<ul style="list-style-type: none"> <li>▪ Winner of AI Hackathon organized by Target HR Bangalore Aug 2018</li> <li>▪ Finalist in Synchro Hackathon, Bangalore Sep 2017</li> <li>▪ Dean's List, Fall 2008 through Spring 2011, SRMCEM 2008 – 2011</li> </ul>
PROFESSIONAL AFFILIATIONS & ACTIVITIES	<p><b>Association for Computing Machinery</b></p> <ul style="list-style-type: none"> <li>▪ Student Member 2017 – Present</li> </ul> <p><b>Sequence Models</b></p> <ul style="list-style-type: none"> <li>▪ Coursera 2018 – Present</li> </ul>
SKILLS	<ul style="list-style-type: none"> <li>▪ Keras,Tensorflow,PyTorch,scikit-learn, spaCy, seaborn(Statistical Data Visualization)</li> <li>▪ C,Java,Python,R</li> <li>▪ Pycharm, Google Colab,AWS, Tableau,Eclipse,L<sup>A</sup>T<sub>E</sub>X</li> <li>▪ MySQL,MongoDB,MS SQL Server</li> </ul>
LINKS	<ul style="list-style-type: none"> <li>▪ Github:// <a href="#">Ashish-Gupta03</a></li> <li>▪ LinkedIn:// <a href="#">ashishgupta031</a></li> <li>▪ Kaggle:// <a href="#">eashish</a></li> <li>▪ Hackerearth:// <a href="#">@AshishG03</a></li> <li>▪ Hackerrank:// <a href="#">MT2016026</a></li> </ul>