Ashish Gupta

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INTERESTS Machine Learning, Deep Learning, Natural Language Processing, Information Extraction, Information Retrieval, Reinforcement Learning

EDUCATION

IIIT Bangalore, Bangalore, Karnataka

- M.Tech in IT with specialisation in Data Science Jul 2016 – Jul 2018
  - Thesis: Question Answering using Video transcripts
  - Adviser: Prof. Manish Gupta
  - Focus: Information Retrieval, Information Extraction, Videos,Attention Mechanism, Bidirectional LSTM, Distant Supervision, Differential Weighing
  - Cumulative GPA: 3.57 / 4.0

SRMCEM, Lucknow, Uttar Pradesh

- B.Tech in CSE Aug 2008 – Jun 2012
  - Deans List for 3 years.
  - Percentage: 75.08

PUBLICATIONS

CONFERENCES

- **Learning with Limited Labels via Momentum Damped Differentially Weighted Training**
  - Rishabh Mehrotra, Ashish Gupta in KDD 2020.
- **Joint Attention Neural Model for Demand Prediction in Online Marketplaces**
  - Ashish Gupta, Rishabh Mehrotra in NLDL 2020.
- **Sequence-aware Reinforcement Learning over Knowledge Graphs**
  - Ashish Gupta, Rishabh Mehrotra in RecSys REVEAL 2019.
- **Neural Attention Reader for Video Comprehension**
  - Ashish Gupta, Rishabh Mehrotra, Manish Gupta in KDD Deep Learning Day 2018.

BLOGS

- **An Introduction to Meta-Learning**
- **Introduction to Reinforcement Learning**

RELEVANT EXPERIENCE

- **Reviewer of IR Journal: Learning from User Interactions** Jun 2019 – Present

Data Scientist

- **Walmart Labs India**, Kadubeesanhalli,Bangalore Jul 2018 – Present
  - Working in the Catalog Data Science team.
  - Used deep learning models like CNN, LSTM, Bi-LSTM CRF for attribute extraction from text.
  - Developed Hawkeye Smart normalization to match the non-standard/junk text present in catalog to the standard text.
  - Used Semi-Supervised Learning to reduce the tagging data and build efficient models with limited data.
  - Working on BERT based models for classification and sequence labelling in Multi-lingual models.

Research Assistant

- **VideoKen Software Pvt. Ltd**, IIIT Bangalore Innovation Centre Jan 2018 – Jun 2018
  - 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.

Teaching Assistant

- **IIIT Bangalore**, Opposite Infosys Gate 1 Jan 2018 – Jun 2018
  - Teaching Assistant for Courses Maths for ML and Machine Learning 1 under Prof. G. Srinivasaraghavan and Prof. Dinesh Babu Jayagopi

Systems Engineer

- **Tata Consultancy Services**, Kolkata, India Nov 2012 – Jun 2016
  - Worked in Oracle apps (an ERP tool) as an OTR consultant. Worked in GE Healthcare projects.
  - Worked in SCM(Supply Chain Management), Purchase Order and Order Management modules of Oracle apps.
  - Worked in project Germany LCS Project, WIPROGE LE Merger, Oracle R12 upgrade where I made and updated some of the custom PL/SQL codes.

- All code was reviewed,perfected, and pushed to production.

PROJECTS	**Deep Recurrent Generative Decoder for Abstractive Text Summarization** (EMNLP 2017)

Sequence to sequence oriented encoder decoder model with attention mechanism and variational auto encoders.

- Novel approach to text summarization with GRU and attention mechanism.   Oct 2019 – Dec 2019

Hierarchical Attention Networks for Document Classification

Implementation of Hierarchical Attention Networks paper NAACL 2016.

- Movie reviews from IMDB dataset are used for prediction.   Mar 2018 – Mar 2018

Large scale Hierarchical Text Classification

Guide:- Prof. G. Srinivasaraghavan

- To assign set of categories to every new Wikipedia document based on the category(325,000) hierarchy and already categorized documents(2,400,000)   Sep 2017 – Nov 2017

Image-based-recommendations,

Guide:- Prof. Dinesh Babu Jayagopi

- 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

ACHIEVEMENTS / CO-CURRICULAR ACTIVITIES

- 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.
- Top 20%(Placed 303 out of 1571 teams) in Google QUEST Q&A Labeling - Improving automated understanding of complex question answer content.
- Top 3%(Placed 94 out of 4037 teams) in Quora Insincere Question Classificatiomn - To identify and flag insincere questions in Quora.
- 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.
- Top 12%(Placed 454 out of 3967 candidates) in Kaggle (TalkingData AdTracking Fraud Detection) Challenge - Predicting whether a user will download an app after clicking a mobile app ad.
- Achieved AIR 56 in ISRO Scientist/SC exam(July'16).
- Qualified GATE'16 with 98.8 percentile(Feb'16).

AWARDS & SCHOLARSHIPS

- Winner of AI Hackathon organized by Target HR Bangalore	Aug 2018
- Finalist in NMIMS Hyderabad Hackathon, Bangalore	Feb 2018
- Finalist in Synechron Hackathon, Bangalore	Sep 2017
- Dean's List, Fall 2008 through Spring 2011, SRMCEM	2008 – 2011

PROFESSIONAL AFFILIATIONS & ACTIVITIES

Association for Computing Machinery
- Student Member   2017 – Present

Sequence Models
- Coursera   2018 – Present

Neural Networks and Deep Learning
- Coursera   2017 – Present

SKILLS

- Keras,Tensorflow,PyTorch,scikit-learn, spaCy, seaborn(Statistical Data Visualization)
- C,Java,Python,R
- Pycharm, Google Colab,AWS, Tableau,Eclipse,LaTeX
- MySQL,MongoDB,MS SQL Server

LINKS

- Github:// **Ashish-Gupta03**
- LinkedIn:// **ashishgupta031**
- Kaggle:// **eashish**
- Hackerearth:// **@AshishG03**
- Hackerrank:// **MT2016026**