Ashish Gupta

Flat No. 107,B wing, Golden Residency,Bellandur, Bengaluru, Karnataka 560103
ashug219@gmail.com, ashish.gupta@iiitb.org • +91 9088467250, +91 9936419704

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.
  - Developed Marketplace 2 Day delivery system to determine if an item can be delivered within 2 business days.
  - 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**