Rishabh Joshi

Contact Information

Carnegie Mellon University
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Links : Webpage, Google Scholar, LinkedIn

Education

Carnegie Mellon University ; Pittsburgh, USA — Aug 2021
Master of Language Technologies
Courses : 10701, 11711, 11747, 11830

Birla Institute of Technology and Science (BITS), Pilani ; Pilani, India — Jun 2018
Bachelor of Engineering (Hons.), Computer Science — CGPA : 9.28/10
Thesis on "Relation Extraction using Distant Supervision" at IISc, Bangalore

The Mother's International School ; Delhi, India — May 2014
Class XII, CBSE — 95.6%
Class X, CBSE — CGPA : 10/10

Publications

Shikhar Vashishth, **Rishabh Joshi**, Sai Suman Prayaga, Chiranjib Bhattacharyya and Partha Talukdar. 2018. RESIDE : Improving Distantly-Supervised Neural Relation Extraction using Side Information. In *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing*, Brussels, Belgium, Association for Computational Linguistics. [Paper] [Code]

Rishabh Joshi*, Gaurav Kumar, Jaspreet Singh and Promod Yenigalla. 2019. AMUSED : A Multi-Stream Vector Representation Method for Use in Natural Dialogue. arXiv :1912.10160. [Paper]

Experience

Carnegie Mellon University, Pittsburgh, PA
Graduate Research Assistant (Advisors : Prof. Yulia Tsvetkov & Prof. Alan W Black) — Sep 2019 - Present

Building a non-collaborative dialogue coach for effective negotiation and persuasion. Working on trying to incorporate personality and style aspects to make negotiation systems better. Specifically, I'm trying to study what makes someone better at negotiation and persuasion and how can we generate text which is more effective for the final outcome. I am also working on incorporating knowledge into a negotiation system.

Samsung Research Institute, Bangalore, India
Research Software Engineer - NLU — Aug 2018 - Aug 2019

Improved open domain dialogue systems using side information and contextual knowledge. Also constructed a low resource intent classification and speaker recognition solutions which will be incorporated in an upcoming product of Samsung.

Indian Institute of Science, Bangalore, India
Undergraduate Thesis (Advisor : Prof. Partha Talukdar) — Jan 2018 - July 2018

Worked on the problem of Distantly-Supervised Relation Extraction where we proposed a novel solution using Graph Convolution Networks and information from external knowledge sources.

Samsung Research Institute, Bangalore, India
Summer Intern - 5G Team — May 2017 - July 2017

Constructed tools for packet generation and distributed analysis for the data link layer of 5G protocol.

Indian Institute of Remote Sensing, ISRO, Dehradun, India
Research Intern (Advisor : Dr. Sameer Saran) — May 2016 - July 2016

Developed core API and execution engine of the DataCube for the effective storage, retrieval and analysis of large earth observation datasets using Python and ideas from distributed and parallel computing.

Projects

iNELL : India centric Never-Ending Language Learner, IISc, Bangalore — Jan 2018 - July 2018
Constructed a unique India-centric Knowledge Graph based on the Never-Ending Language Learning paradigm.

BITS LifeGuard, Wearables, Pervasive and Network Research Lab, BITS Pilani — Nov 2015 - Jan 2018
Developed robust sensor fusion methods for a wearable driver safety jacket as a Research Assistant under Prof. Rahul Banerjee. Was able to detect stress using various unobtrusive sensor data and showed that GSR is the best metric to judge stress levels.

Distance Iris Recognition, BITS Pilani Jan 2017 - May 2017
Created iris recognition model for distance iris images with Prof. Kamlesh Tiwari and got near SOTA performance with a simpler model.

Ad Effectiveness and their Impact on Sales, BITS Pilani Aug 2017 - Dec 2017
Analysed the effectiveness of ads on the popularity and sales of products using approaches from NLP with Prof. Sangeeta Sharma.

Teaching

Teaching Assistant for Applied Machine Learning 11-663, CMU Jan 2020 - May 2020
Responsible for assisting Prof. Carolyn Rose by taking office hours for around 100 students and assisting about half in their group projects.

Teaching Assistant for Data Structures and Algorithms, BITS Pilani Jan 2017 - May 2017
Helmed two lab sections and was the jury for the online judge with the responsibility of assisting 200+ students. The course was taught by Prof. Sundar S Balasubramaniam.

Honors and Awards

- **Honourable Mention**, Won a cash prize of $200 for an oral presentation at the 2019 LTI Student Research Symposium. CMU, 2019
- **1st**, Campus ML Hackathon organized by MapMyIndia on Kaggle in APOGEE BITS Pilani, 2017
- **3rd**, ML Hackathon organized by D.E. Shaw on HackerEarth 2017
- **2nd**, E-Yantra, a robotics competition organized by MHRD and IIT Bombay 2016
- **Merit**, Recipient of Institute Merit Scholarship for academic excellence 2015
- **1574**, All India Rank (AIR), IIT-JEE (out of around 1,300,000) 2014
- **Inspire**, Recipient of Govt. of India Inspire Scholarship (top 1% in CBSE) 2014
- **All India Topper**, Chemistry, CBSE Class XII Board (100/100)
- **School Topper**, Computer Science, CBSE Class XII Board (99/100)

Positions of Responsibility

Executive Coordinator, Embryo Club, BITS Pilani Apr 2016 - Apr 2017
Responsible for handling the finances of the club and raised the club treasury from Rs. 20,000 to Rs. 180,000. Organized an on campus talk by Amish Tripathi, handling all expenses and negotiations.

Joint Activities Coordinator, ACM BITS Chapter Aug 2015 - Aug 2016
Responsible for all activities of ACM throughout the year, successfully conducting more than 8 events. BITS-ACM won the best ACM chapter award for that year in India.

Extra Curricular Activities

Volunteer for National Service Scheme, BITS Pilani chapter from Aug 2014 to Aug 2017. Helped underprivileged people from Pilani and nearby village to become acquainted in computers and technology. Also organized Junoon, a sports festival for physically challenged people.

Gave introductory lectures to junior year students on transition trends of Campus-to-Corporate (C2C) under, Prof. Sushila Shekhawat.