Jeetu Raj

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EDUCATION

UIUC
MS in Computer Science
2018 - 2020
Cum. GPA: N/A

IIT, DELHI
BTech in Computer Science
2013 - 2017
Cum. GPA: 9.11 / 10.0
Major GPA: 9.116 / 10.0

INTERESTS

Machine Learning
Information Retrieval
Artificial Intelligence

COURSEWORK

UIUC
Deep Learning*
Advanced Information Retrieval*

IIT, DELHI
Artificial Intelligence
Machine Learning
Probabilistic Graphical Models
Computational Neuroscience
Intro to Parallel and Dist. Comp
Operating systems and others

*: Currently pursuing

TEACHING

TA, COL 100, IIT DELHI
Introduction to CS by
Prof. Subodh Kumar
Prof. Huzur Saran

SKILLS

PROGRAMMING
Proficient:
C • C++ • Python • LaTeX
Familiar:
Java • C# • Matlab

INDUSTRY EXPERIENCE

MICROSOFT RESEARCH | Research Fellow
Advisors: S. Sellamanickam, Arun Iyer | July 2017 - July 2018 | Bangalore
- Project titled "Unsupervised representation learning on heterogeneous graphs".
- Worked on problem definition along with survey and selection of primary approach.
- Devised an online algorithm and tackled issues with representation based ranking.
- Goal to use representation for a variety of intelligent tasks on Outlook.

ADOBE | Research Intern
Advisor: Sunav Choudhary | May 2016 - July 2016 | Bangalore
- Worked on "Usage-based Prototype Evaluation" for "Mobile User Intelligence".
- Employed language modeling techniques and topic modeling algorithms for solution.
- Developed a prototype for demonstrating the use cases before Adobe Research lab.

PROJECTS

MLDATASCOPE | Graduate Research Assistant, UIUC
Advisor: Prof. Kevin Chang | August 2018 – Present
Aim is to design a system which can discover, ingest, and search the public dataset and API space. Currently working on surveying the dataset and API space along with prior work.

ML ON FMRI DATASET: TEMPORAL LOBE EPILEPSY | IIT, Delhi
Advisor: Prof. Tapan Gandhi | Jan 2017 – July 2017 | Under review at NeuroImage
Designed a system to predict whether an individual has Epilepsy or not using fMRI data. Performed identification and ranking of prominent brain regions responsible for Epilepsy. Collaborated with neuroscientists for the project and submitted work to NeuroImage.

DYNAMIC PARTITION BLOOM FILTERS | IIT, Delhi
Advisor: Prof. Amitabha Bagchi | July 2016 – July 2017 | Submitting to ICDE
Proposed a novel variant of Bloom filters for dynamic sets with reduced false positives. Theoretical guarantees provided for the proposed structure with empirical evaluation.

OUTDOOR NAVIGATION FOR BLIND | IIT, Delhi
Advisor: Prof. M. Balakrishnan | Jan 2015 – May 2015
Designed an assistive device based on haptic feedback and visual signboard detection. Worked on automated image capture, image processing and text recognition using Tesseract OCR. Presented our project during the annual Open House, IIT Delhi.

DEEP LEARNING AND NEUROSCIENCE: TERM PAPER | IIT, Delhi
Advisor: Prof. Tapan Gandhi | July 2016 – Dec 2017
Performed a literature review of Deep Learning techniques employed for modeling brain functionality. Consisted of dedicated sections for each sensory cortex of the brain.

SCHOLASTIC ACHIEVEMENTS

- Awarded IITD Semester Merit Award by IIT Delhi for being in top 7% students.
- Awarded scholarship for qualifying National Talent Search Exam
- All India Rank - 107(GE) in IIT JEE Advanced 2013 out of 1.4 million candidates

EXTRA CURRICULAR

- Internship for Social Cause: Aga Khan Foundation — Dec, 2016
- National Service Scheme for social service — July, 2013 - July, 2017
- Member of Fine Arts Club, IIT Delhi — July, 2013 - July, 2017