

International Institute of Information Technology-Bangalore, (IIIT-B)

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ABOUT ME

Masters student of Computer Science and Engineering at IIIT-B. Interested in pursuing deep research in the emerging fields of AI and ML.

ACADEMIC ACHIEVEMENTS

Degree	University	Specialization	Year	Total
Integrated Master's	IIIT Bangalore	Computer Science Engineering	2014-2019	3.56/4.0 (till date)
High School	Indian School Certificate	Mathematics and Science	2014	95.6/100.0

PAPER PUBLICATIONS

- Pratheeksha Nair, Anup Deshmukh, Shrisha Rao, A Scalable Clustering Algorithm for Serendipity in Recommender Systems, In the Proceedings of the 18th IEEE International Conference on Data Mining (ICDM 2018)
- Rameshwar Pratap, **Pratheeksha Nair**, Anup Deshmukh, Tarun Dutt, **Fast and Provable Concept Decompositions in Large Text Corpus**, *In the Proceedings of Machine Learning Research (ACML 2018)*

TECHNICAL SKILLS

Languages (C, C++, Python), Database (MySQL), Tools (ETEX, Matlab), Libraries (Tensorflow, Keras, Pytorch)

RESEARCH EXPERIENCE

• Method Summarization from Code - Internship at IBM Research AI Lab, India

(Guide: Rahul A R, May'18 - Aug'18)

This work involves using sequence to sequence deep models to solve problems prevalent in Software Engineering. One particular use-case is the automatic generation of comments from code.

• Detection of star clusters using Pattern Analysis - Indian Institute of Space Science and Technology (IIST) (Guide: Prof. Sarita Vig, May'17 - July'17)

Worked on a direct application of pattern analysis techniques for a highly relevant problem statement in astrophysics. Used the K-Nearest Neighbor algorithm for density estimation and detection of star clusters.

• Scaling up Simhash

(Guide: Dr R Pratap, Jan'18 - May'18)

Proposed a dimensionality reduction sketching algorithm - simsketch - which maintains an estimate of the cosine similarity between original real valued vectors.

ACADEMIC PROJECTS

• Word Embeddings for Medical Domain (Guide: Prof. G S Raghavan, Aug'18 - present)

Working on generating word embeddings specifically for medical terms making use of hierarchical ontologies in medicine.

• Refreshable Braille Reader on Arduino Teensie (*Guide: Prof. Sujit Kumar, Aug'18 - present*) Working on a text-to-Braille converter that runs on microcontrollers like Arduino.

ACHIEVEMENTS

• GHCI '18 Student Scholar

Scholarship to attend India's largest gathering of women technologists produced by AnitaB.org and ACM India.

• World Rank 7 (HackerRank Women's Cup 2015)

 7^{th} rank out of 1000+ participants in the world. 3^{rd} place in the country. Featured in a YourStory article.

• World Rank 23 (Adobe CODHERS Codesprint 2016)

 23^{rd} rank out of 1500+ participants all over the world. 21^{st} place in the country.

• World Rank 49 (Women's CodeSprint 2016)

 49^{th} rank out of 2500+ participants all over the world. 19^{th} place in the country.

OTHER ACTIVITIES

- Teaching Assistant for GEN 511 ML course (2018)
- Mentor at the Student Mentoring Program of IIITB (2017-2018)
- Curator at TEDx IIITB (2018)
- Active member of the Dance Club of IIITB (2016-2019)

REFERENCES

Prof. Shrisha Rao - Professor at IIIT-B (srao@iiitb.ac.in)

Prof. Dinesh Babu - Assistant Professor at IIIT-B (jdinesh@iitb.ac.in)

Prof. Sujit Kumar Chakrabarti - Assistant Professor at IIIT-B (sujitkc@iiitb.ac.in)