

Anshul Pundhir

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OBJECTIVE

I am a Ph.D. student at Machine Intelligence Lab, IIT Roorkee, India, supervised by Prof. Balasubramanian Raman. I am interested in tech ideas, learning soft skills, and discussing solutions. My primary research interest revolves around Medical Image Analysis using Deep learning-based techniques. I am seeking a collaboration with a medical research lab engaged in developing innovative solutions for real-life medical challenges that would offer professional growth and excel my skills and experience.

EDUCATION

Ph.D. , Computer Science (pursuing), CGPA: 9.25/10 Indian Institute of Technology, Roorkee, Uttarakhand, India. Thesis Area: <i>Medical Image Analysis</i> Supervisor: Prof. Balasubramanian Raman	Dec 2019 onwards
Integrated M.Tech. , Computer Science, CGPA: 8.51/10 Dayalbagh Educational Institute, Agra, Uttar Pradesh, India.	2019
Integrated M.Sc. , Computer Science, CGPA: 8.30/10 Dayalbagh Educational Institute, Agra, Uttar Pradesh, India.	2018
B.Sc. , Computer Science, CGPA: 8.45/10 Dayalbagh Educational Institute, Agra, Uttar Pradesh, India.	2017

ACADEMIC EXPERIENCE

Teaching Assistant <i>Indian Institute of Technology, Roorkee, India.</i> Assisted Prof. Balasubramanian Raman in tutorial and quiz sessions for Advance Algorithms (CSN-501), Data Structures and Algorithms (AID-525), Fundamentals of Object Oriented Programming (CSN-103), and Discrete Structures (CSN-106) courses.	Dec 2019 - Present
Teaching Assistant <i>Dayalbagh Educational Institute, Agra, Uttar Pradesh, India.</i> Assisted Dr. R.S. Pavithr in lab and quiz sessions for Soft-Computing and Programming courses.	Jul 2016 - Jul 2018

RESEARCH INTERESTS

- Medical Image Analysis
- Deep Learning
- Machine Learning
- Soft Computing
- Evolutionary Algorithms

PUBLICATIONS

Conferences

- [C-1] **Anshul Pundhir**, Saurabh Dadhich, Ananya Agarwal, and Balasubramanian Raman, “Towards Improved Skin Lesion Classification using Metadata Supervision”, Accepted for publication in 26th International Conference on Pattern Recognition (ICPR 2022), August 21-25, 2022, Montréal Québec, Canada.
- [C-2] **Anshul Pundhir**, Deepak Verma, Puneet Kumar, and Balasubramanian Raman. ”Region extraction based approach for cigarette usage classification using deep learning”. 6th IAPR International Conference on Computer Vision and Image Processing (CVIP 2021), 3-5th Dec, 2021 IIT Ropar, Punjab-140001, India.

AWARDS & SCHOLARSHIPS

1. **Registration support** from the **UGC-JRF Contingency fund** to present a research paper in the 6th IAPR International Conference on Computer Vision and Image Processing (CVIP 2021), **IIT Ropar, India**.
2. Received **UGC-JRF Scholarship** during Ph.D. (Dec, 2019 onwards)
3. Gave a topper talk on chamomile tea with toppers for JRF
4. Qualified NTA NET-JRF **June with 99.88%ile** Computer Science in 2019
5. Received **MHRD Scholarships** during M.Tech in 2019
6. Qualified NTA NET **June, Dec** Computer Science in 2018
7. Qualified **GATE** Computer Science in 2018
8. Awarded third in National Science Exhibition
9. Third rank in city, National Science Olympiad

TECHNICAL SKILLS

Programming Languages : C/C++ (proficient), Python (proficient),
Core Java (acquainted)

Development Tools : MATLAB, PyTorch, Anaconda, PyCharm,
Spyder, Eclipse, Visual Studio Code.

OTHER PROJECTS

- *Video Analytics*
Application of computer vision algorithms for academic purpose systems.
- *Intrusion Detection System*
Use feature elimination technique to get relevant features for system.
- *Credit Card Fraud Detection System*
Detect fraudulent transactions using ML techniques.
- *Twitter Sentiment Analysis*
Analyze tweets to perform sentiment analysis.
- *Automated Essay Grader*
Use NLP to evaluate the effectiveness of the given essay.
- *Time-Table Utility Software*
Extract information from given time table schedule.

WORKSHOP/TRAINING/CONFERENCES ATTENDED

1. Summer internship under supervision of Prof. Venkatesh Babu from IISc Bangalore (April-July, Virtual). 2021.
2. Attended 6th International Conference on Computer Vision and Image Processing (CVIP), IIT Ropar, India (Virtual) 2021.
3. Attended 28th International Conference on Image Processing (ICIP), Anchorage, Abu Dhabi, UAE (Virtual) 2021.
4. Attended The Workshop on Computer Vision and Image Processing (WCVIP), IIT Roorkee, India (Virtual) 2020.

TALKS/WORKSHOPS DELIVERED

1. Assisted a Faculty Development Program (FDP) on 'Machine Learning for Computer Vision (ML4CV)' at E&ICT Academy, IIT Roorkee. March 2022.
2. Conducted a training session on 'Clustering Algorithms and their use cases' at E&ICT Academy, IIT Roorkee. Nov 2021.
3. Assisted in a training session on 'Human Action Recognition and Generation' during 'The Workshop On Computer Vision And Image Processing (WCVIP)' at IIT Roorkee. Dec 2020.
4. Organized a training session on 'Dimensionality Reduction Algorithms' during the workshop on Digital Image Processing & Applications (DIPA) at NIT Arunachal Pradesh. Aug 2020.

ACTIVITIES

Research Paper Reviewer: Reviewed research papers in various reputed conferences, including International Conference on Pattern Recognition (**ICPR**), International Conference on Computer Vision & Image Processing (**CVIP**).

Co-curricular Activities: Volunteer for data collection in a collaborative project between **Michigan State University, (MSU) USA** and Dayalbagh Educational Institute, India, Volunteered in National Service Scheme (NSS), Regular participant in dramatic events in college like Street-plays, skits, Mime, Nukkad Natak, etc.

Hobbies: Watching movies, Hypothetical story-telling, Music, Meditation, and Volunteering

PERSONAL DETAILS

Father's Name	: Pushpendra Veer Singh Pundhir	Mother's Name	: Sadhana Pundhir
Date of Birth	: Aug 13, 1996	Martial Status	: Unmarried
Nationality	: Indian		
Permanent Address: 605, Verma Nagar Agra Road Etah, Uttar Pradesh, India - 207001.			

DECLARATION

I hereby state that all the information mentioned above is true to the best of my knowledge and I shall be held responsible for any discrepancy found later.

Date: June 17, 2022

Place: Roorkee, Uttrakhand.

Anshul Pundhir

REFERENCES

Prof. R. Balasubramanian

Professor, CSE Department, Indian Institute of Technology, Roorkee, India.

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Prof. Gur Saran Adhar

Professor, Computer Science Department, University of North Carolina (UNCW), Wilmington.

E-mail: adharg@uncwil.edu

Prof. Preetvanti Singh

Professor, Physics and Computer Science Department,
Dayalbagh Educational Institute, Agra, Uttar Pradesh, India.

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Prof. Lotika Singh

Associate Professor, Physics and Computer Science Department,
Dayalbagh Educational Institute, Agra, Uttar Pradesh, India.

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