Pravin Nagar

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RESEARCH INTERESTS

Computer Vision, Deep Learning, Video Analysis, and Egocentric lifelogs Analysis.

EDUCATION

IIIT-Delhi, India
PhD candidate, Computer Science and Engineering, CGPA: 8.14 — 2016–Present
Visvesvaraya Ph.D. Fellow (2016-2020)
Thesis: Analysing (Weeks) Long Egocentric Lifelogs
Advisor: Dr. Chetan Arora

IIIT-Allahabad, India
M.Tech., Information Technology, CGPA: 8.65 — 2012–2014
Thesis: Human Action Recognition
Advisor: Dr. Anupam Agarwal

Mahakal Institute of Information Technology and Science, Ujjain, India
B.Tech., Computer Science and Engineering, Percentage: 70 — 2007–2011
Project: Hotel Management website
Advisor: Pradeep Rupalia

PUBLICATIONS

Pravin Nagar, and Chetan Arora. "SATFormer: Semantic Attention Transformer for Activity Clustering in Extremely Long Egocentric Lifelogs" Communicated to ECCV 2022.

Pravin Nagar, Anuj Rathore, C. V. Jawahar, and Chetan Arora. "Generating Personalized Summaries of Day Long Egocentric Videos" *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI), 2021.* (Impact Factor: 16.39)

Pravin Nagar, Mansi Khemka, and Chetan Arora. "Concept Drift Detection for Multivariate Data Streams and Temporal Segmentation of Daylong Egocentric Videos" *Proceedings of the 28th ACM International Conference on Multimedia (ACM MM), 2020.*

Anuj Rathore*, **Pravin Nagar***, Chetan Arora, and C.V. Jawahar. "Generating 1 Minute Summaries of Day Long Egocentric Videos" *Proceedings of the 27th ACM International Conference on Multimedia (ACM MM), 2019.* (* both authors contributed equally)

Sagar Verma, **Pravin Nagar**, and Chetan Arora. "Making third person techniques recognize first-person actions in egocentric videos" *25th IEEE International Conference on Image Processing (ICIP), 2018.*

Pulkit Kumar, **Pravin Nagar**, Anubha Gupta and Chetan Arora. "U-Segnet: fully convolutional neural network based automated brain tissue segmentation tool" *25th IEEE International Conference on Image Processing (ICIP), 2018.*

Pravin Nagar, Anupam Agrawal. "Geometric invariant model based human action recognition" *9th International Conference on Industrial and Information Systems (ICIIS), 2014.*

Work Experience

IIT Delhi, India
Junior Research Fellow — Feb, 2021–Present
Research Project: Learning from Egocentric Videos
PI: Dr. Chetan Arora

PSIT Kanpur, India
Assistant Professor — Jul, 2014–Dec, 2015
Subjects: Artificial Intelligence, DBMS, and Software Engineering

Awards & Achievements

Program Committee member of Workshop on User-Centric Narrative Summarization of Long Videos in conjunction with ACM MM 2022.	Jun, 2022
Presented 'Generating Personalized Summaries of Day Long Egocentric Videos' at the Vision India session at ICVGIP'21.	Dec, 2021
Presented my thesis work at Doctoral Symposium at ICVGIP'21.	Dec, 2021
Won first prize in student paper competition in a workshop organized by LCS2 at IIITD.	Nov, 2021
Delivered a Tensorflow tutorial in the summer school on AI Assisted Data Analytics (AIDA) organized by IIITD.	Jul, 2020
Received Google Travel Grant for ACM MM 2019.	Oct, 2019
Received Visvesvaraya PhD fellowship (Govt. of India).	Jul, 2016
Attended Summer School on Deep Learning for Computer Vision at IIIT Hyderabad.	Jul, 2016

Positions Of Responsibility

Reviewed Journals: Pattern Recognition and IETE Journal of Research Reviewed Conferences: ECCV, ACM MM, ICIP, and ICME	Jan, 2018-Jan, 2022
Participated and Member of organizing committee for 'Intelligent Interactive Technologies and Multimedia (IITM)' conference	Mar, 2013
System Administrator, CVML lab, IIIT-Delhi	Aug, 2018 - Dec, 2020

Teaching Assistant

CSE507-Database System Implementation	Winter 2016
CSE201-Advance Programming	Monsoon 2016
CSE561-Probabilistic Graphical Models	Winter 2017
CSE543-Machine Learning	Monsoon 2017
CSE561-Probabilistic Graphical Models	Winter 2019
CSE642-Advanced Machine Learning	Monsoon 2019
CSE641-Deep Learning	Winter 2020
CSE562-Advanced Computer Vision	Monsoon 2020

Skills

Tools and Technologies
PyTorch, Tensorflow, Matlab, Caffe, OpenCV, Pandas, SciPy.
Programming Languages
Python, Java, C, C++.

References

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Associate Professor, IIT Delhi, India
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Dr. C. V. Jawahar
Professor, IIIT Hyderabad, India
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