

Pravin Nagar, Ph.D.

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<https://pravin74.github.io/>

RESEARCH INTERESTS	Computer Vision, Video Analysis, Reinforcement Learning, Long Sequence Analysis, Transformer Networks, and Egocentric Vision	
WORK EXPERIENCE	Dolby Laboratories <i>Senior AI Researcher</i> Research Project: Multimodal Content Analysis PI: Dr. Claus Bauer	Mar, 2024–Present
	University of Maryland, College Park, USA <i>Postdoctoral Researcher</i> Research Project: Learning Grammar from Videos PI: Dr. Abhinav Shrivastava	Sep, 2022–Jan, 2024
	IIT Delhi, India <i>Junior Research Fellow</i> Research Project: Learning from Egocentric Videos PI: Dr. Chetan Arora	Feb, 2021–Aug, 2022
EDUCATION	IIIT-Delhi, India PhD, Computer Science and Engineering Visvesvaraya Ph.D. Fellow (2016-2020) Thesis: Analysing (Weeks) Long Egocentric Lifelogs Advisor: Dr. Chetan Arora	2016–2022
	IIIT-Allahabad, India M.Tech., Information Technology Thesis: Human Action Recognition Advisor: Dr. Anupam Agarwal	2012–2014
	RGPV, Bhopal, India B.Tech., Computer Science and Engineering	2007–2011
POSITIONS OF RESPONSIBILITY	Reviewed Journals: PR'21 and IETE Journal of Research'20-21 Reviewed Conferences: ECCV'24, CVPR'24, CVPR'23, ICCV'23, ECCV'22, and ACM MM'20	
	Program Committee member of Workshop on User-Centric Narrative Summarization of Long Videos in conjunction with ACM MM 2022	Jun, 2022
	Member of organizing committee for 'Intelligent Interactive Technologies and Multimedia (IITM)' conference	Mar, 2013
	System Administrator, CVML lab, IIIT-Delhi	Aug, 2018 - Dec, 2020

ONGOING	<p>Pulkit Kumar, Pravin Nagar, Nirat Saini, and Abhinav Shrivastava. “Unsupervised Extraction of Grammar from Videos” In preparation.</p> <p>Pravin Nagar, Pulkit Kumar, and Abhinav Shrivastava. “BoundaryFormer: Unsupervised Generic Event Boundary Detection using Reinforcement Learning” In preparation.</p>		
PUBLICATIONS	<p>Pravin Nagar, and Chetan Arora. “SEMA: Semantic Attention for Capturing Long-Range Dependencies in Egocentric Lifelogs” <i>IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)</i>, 2024.</p> <p>Pravin Nagar, Anuj Rathore, C. V. Jawahar, and Chetan Arora. “Generating Personalized Summaries of Day Long Egocentric Videos” <i>IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)</i>, 2021. (Impact Factor: 16.39)</p> <p>Pravin Nagar, Mansi Khemka, and Chetan Arora. “Concept Drift Detection for Multivariate Data Streams and Temporal Segmentation of Daylong Egocentric Videos” <i>Proceedings of the 28th ACM International Conference on Multimedia (ACM MM)</i>, 2020.</p> <p>Anuj Rathore*, Pravin Nagar*, Chetan Arora, and C.V. Jawahar. “Generating 1 Minute Summaries of Day Long Egocentric Videos” <i>Proceedings of the 27th ACM International Conference on Multimedia (ACM MM)</i>, 2019. (* both authors contributed equally)</p> <p>Sagar Verma, Pravin Nagar, and Chetan Arora. “Making third person techniques recognize first-person actions in egocentric videos” <i>25th IEEE International Conference on Image Processing (ICIP)</i>, 2018.</p> <p>Pulkit Kumar, Pravin Nagar, Anubha Gupta and Chetan Arora. “U-Segnet: fully convolutional neural network based automated brain tissue segmentation tool” <i>25th IEEE International Conference on Image Processing (ICIP)</i>, 2018.</p>		
AWARDS & ACHIEVEMENTS	<p>IIIT Delhi nominated my Ph.D. dissertation for the <i>ACM India Doctoral Dissertation Award 2023</i>. Sep, 2023</p> <p>Presented ‘Generating Personalized Summaries of Day Long Egocentric Videos’ at the <i>Vision India session at ICVGIP’21</i>. Dec, 2021</p> <p>Presented my thesis work at Doctoral Symposium at <i>ICVGIP’21</i>. Dec, 2021</p> <p>Secured first prize in student paper competition in a workshop organized by <i>LCS2 at IIITD</i>. Nov, 2021</p> <p>Delivered a Tensorflow tutorial in the summer school on <i>AI Assisted Data Analytics (AIDA)</i> organized by <i>IIITD</i>. Jul, 2020</p> <p>Received <i>Google Travel Grant</i> for ACM MM 2019. Oct, 2019</p> <p>Received <i>Visvesvaraya PhD fellowship (Govt. of India)</i>. Jul, 2016</p> <p>Attended Summer School on Deep Learning for Computer Vision at <i>IIIT Hyderabad</i>. Jul, 2016</p>		
REFERENCES	<p>Dr. Abhinav Shrivastava Assistant Professor UMD, College Park abhinav@cs.umd.edu</p>	<p>Dr. Chetan Arora Professor IIT Delhi chetan@iitd.ac.in</p>	<p>Dr. C. V. Jawahar Professor IIIT Hyderabad jawahar@iiit.ac.in</p>