https://www.pinakinathc.me

https://www.linkedin.com/in/pinakinathc/



Education

2020 – Present	SketchX Lab of Center for Vision, Speech and Signal Processing University of Surrey, United Kingdom. Doctor of Philosophy (Ph.D) Write-up Phase. Supervisors: Prof. Yi-Zhe Song and Prof. Tao Xiang
2014 - 2018	 Kalyani Government Engineering College, Kalyani (India) University: Maulana Abul Kalam Azad University of Technology Formerly known as West Bengal University of Technology Computer Science and Engineering DGPA: 8.33/10 (Including all 8 semesters) Graduated with Bachelor of Technology (Honors) B.Tech Thesis: Analysis and Comparison of Natural Shapes.

Employment History

December 2023 – Present	Research Scientist Sony PlayStation, London, UK.
March 2023 – December 2023	Research Scientist iSize Technologies, London. (Acquired by Sony PlayStation, UK.)
January 2022	▶ Visiting Scientist Indian Statistical Institute, Kolkata. Host: Prof. Umapada Pal (ex-Head CVPR Unit).
June 2021 – August 2021	■ Tech Intern PhD Adobe Systems Europe Limited. Project Title: Sketch-Based Multiview Garment Modeling. Guide: Tuanfeng Wang, Duygu Ceylan. Manager: Niloy J. Mitra. Published a paper in 3DV'22 Oral.
June 2018 – September 2020	Research Assistant Indian Statistical Institute, Kolkata. Worked on multiple problems related to computer vision and machine learning. Published 11 research papers. Guide: Prof. Umapada Pal (CVPR Unit at Indian Statistical Institute, Kolkata).
May 2018 – June 2018	Full Stack Developer Egnify Technologies, Hyderabad. GraphQL to help reduce development time and scale microservices. Restructured backend dataflow across multiple nodes/services to reduce latency (e.g., one-time data authentication via REST using one microservice scaled vertically).
February 2018 – April 2018	■ Full Stack Developer Intern MyAnatomy Integrations, Bangalore. Used MERN stack to restructure and build multiple microservices and re- duce latency. Migrate DB from Firebase to MongoDB. Speed-up develop- ment (thanks to MQL) and used DB fragmentation to improve latency. Single-handedly built the payment service ground-up. Fix bugs in ReactJS.

Employment History (continued)

August 2017 – February 2018	Research Intern. Central Drug Research Institute, Lucknow. Analyse the social awareness of multiple disease (Alzheimer, HIV etc.) in South Asia, at scale, using web scrapping from multiple News Articles and simple but fast ML tricks for Classification. Guide: Dr. Sukant Khuranna.
October 2016 – March 2017	▶ Python Developer Intern EduGorilla Community, Lucknow, India Web Scrapping and creating microservices for data collection and validation. Created the largest and most accurate database in India with school addresses, phone numbers, and educational blogs/resources.

Miscellaneous Experience

Talks

2022	The Com	puter Vision	Center ((CVC).	Universitat	Autònoma	de Barcelona	(UAB), Spain.
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Teaching

2023		EEEM071	Advanced	Topics in	Computer	Vision and Dee	ep Learning,	University	of Surrey
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2021 📕 EEE1032 Mathematics II: Engineering Mathematics, University of Surrey

Volunteer

2021 – Reviewer for IEEE-TPAMI, CVPR, ICCV, ECCV, AISTATS, NeurIPS, ICLR, ICML, IEEE-TMM, IEEE-TIST, Computer & Graphics, PR, PRL, ICPR, MIR, Pacific Graphics.

Awards and Achievements

- 2023 **UK Global Talent Visa** Endorsement (exceptional promise) from Royal Academy of Engineering.
 - **CVPR 2023 Best Paper Finalist** Top 12 out of 9155 submissions and 2360 accepted papers.
- 2020 📕 Ph.D. Scholarship iFlyTek-Surrey Joint Research Centre on Artificial Intelligence
- 2014 West Bengal Joint Entrance Examination Rank: 960 out of 0.1 million candidates. Opening rank in Kalyani Government Engineering College, batch: 2014-2018

Tech used in my Current/Previous Roles

Coding	▶ Python, C++, C, CUDA (very basic)
Databases	📕 MongoDB, MysQL, PostgresQL, sQLite, Google Datastore.
Web Dev	📕 JavaScript, GCP, AWS (S3, EC2), Linode, Heroku.
Misc.	High Performance Computing (Slrum, Condor), Docker, Singularity, GIT, Tensorflow, Pyt-
	orch, TorchScript, Scrappy, MERN, GraphQL.

Selected Publications (see Google Scholar for a detailed list)

Chowdhury, **P. N.**, Bhunia, A. K., Sain, A., Koley, S., Xiang, T. & Song, Y.-Z. (2023a). Democratising 2D Sketch to 3D Shape Retrieval Through Pivoting. In *IEEE International Conference on Computer Vision (ICCV)*.

