Aditya Narendra

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Education

May 2017 May 2021	Odisha University of Technology and Research (OUTR) Bachelor of Technology (B.Tech) in Fashion and Apparel Technology Undergraduate Thesis - Applications of Artificial Intelligence in Fashion Industry [C Courses - Data Structures, Algorithms, Machine Learning, Linear Algebra, Calculus, Prob		Bhubaneswar, Odisha CGPA: 9.56/10 (Maj.) bility & Statistics
Experie	nce		
Dec 2022 Jan 2024			Zurich, Switzerland
2	 > Working on a project on quantification of potential carbon capture and plant biodiversity recovery of savannah, and mangrove-assisted forest restoration projects. > Built a LLM-based model with custom review tags for summarizing grey literature of regeneration practices in ASReview Lab and was featured in their monthly newsletter. [%] 		
Jul 2023	Neuromatch Academy [🚱] Remo		Remote
Aug 2023	 2023 Research Volunteer Advisors: Dr. José Biurrun Manresa & Dr. Xi-He Xie > Participated in the 2023 Summer School on Computational Neuroscience. > Worked on 'Prediction of Future Continuous Motion States from ECoG Recordings' based on joystic tracking data. [O] [Slides] [Notes] 		
Aug 2022 Oct 2023	Tech Mahindra [Image: Second structureImage: ConstructureImage: Constructure		
	 > Led a team to build a smart traffic system for Govt of Odisha, now in use at 50+ statewide crossings. > Developed an EHR tracking application involving over 75k records for a private sector client. > Taught '401-Deep Learning' [%] an introductory DL course to 50+ undergrads from various backgrounds. 		
Aug 2022 Sept 2023	Carnegie Mellon University Xu Lab [] Research Intern Advisor: Prof. Min Xu		Pittsburgh, USA
	 Contributed to an unsupervised clustering model for structural pattern mining of Cryo-ET data. [O] Also worked on a contrastive self-supervised learning method for macromolecular structure classification from Cryo-ET data. 		
Jul 2022 Aug 2022	École de Technologie Supérieure (ÉTS Montreal) Montreal, Ca Summer School Research Intern Advisors: Prof. Thomas Grenier & Prof. Pierre-Marc Jodoin		Montreal, Canada doin
	 Participated in the 2022 Summer School on Deep Learning for Medical Imaging (3rd Edition). [S] Worked on benchmarking various weakly supervised segmentation techniques for cardiac disease d agnosis. [S] 		
Jul 2021 Jan 2022			
Skills	 	Research Interests	
Languages: C, C++, Python		AI for Social Good	
Frameworks: Tensorflow, PyTorch, Keras, REST API		Trustworthy Machine Learning	

Misc.: Git, Linux, LTEX, Matlab, QGIS

Human-AI Interaction

Publications

Uncertainty Quantification in DL Models for Cervical Cytology [B] Paper] [C] Shubham Ojha & Aditya Narendra)]
Medical Imaging with Deep Learning-2024	[MIDL'24]
Deep Learning Based Classification of the Big Four Snake Species Using Visua	
Nishikanta Parida, <u>Aditya Narendra</u> , Pooja Reddy Kolimi, Priyansu Panda & Ipsit M 14th IEEE International Conference on Cloud Computing, Data Science & Engineering	ISTA [Confluence'24]
From Robots to Books: An Introduction to Smart Applications of AI in Educat Shubham Ojha, Siddharth Mohapatra, <u>Aditya Narendra</u> & Ipsit Misra 7th Springer International Conference on Recent Innovations in Computing	ion (AIEd) [Paper] [Slides]
Patents	
AI-Based Emergency Healthcare Solution (Patent No- 202331002146) [%] Ipsit Misra, Jibitesh Mishra, Aditya Narendra & Khirod Behera [Published and Under Examination]	[India Patents Office]
Select Projects	
Satellite Data-based Pollution Forecasting using CNNs [O] Advisor: Prof. Jibitesh Mishra	Jan 2023 - Apr 2023
 Built a CNN-based model to predict Breezometer Air Quality Index (BAQI) us 87% accuracy matching existing industry models. [Paper In Preparation] Created a dataset of over 10,000 satellite images at resolution 1280 x 1280 and records across 57 cities in India. 	
MoSwasthya: ML Based Application for Cardiac Disease Risk Prediction [•] Advisor: Ipsit Misra	[■] [Slides] Nov 2022 - Dec 2022
 Created an all-in-one application that provides an Ensemble Method based F which estimates the cardiac disease risk on non-medical inputs with a real-da This application also provides user-health analytics and details of healthcare 	ay accuracy of 91.24% .
Vision-Based Models for Sorting and Segregation of Waste [O] [Slides] Associated Organization: Omdena	July 2022 - Aug 2022
 Worked as a Junior ML Engineer on state-of-art CNN techniques for segregation and sorting of waste/trash into 10 commonly occurring classes. [%] Evaluated this approach on benchmark datasets demonstrating matching accuracies of over 97% in most cases. Worked as a co-task lead for the deployment of the application using the Hugging Faces-Gradio Framework. 	
Awards	
2022 Smart Odisha Hackathon: Awarded 1st Prize out of 1000 teams worth \$250	00 by the Government of Odisha [$%$] .
2022 Hugging Face Gradio NYC Hackathon: Awarded 2nd prize out of 100 teams	s worth \$200 by Hugging Face $[{}^{igodold s}]$.
2022 DLMI Summer School: Received a full-ride grant to attend the DLMI summ	ier school at ÉTS Montreal [🔇] .
OUTR Merit Scholarship: Secured scholarships for ranking 1st in the department	t during my last two undergrad years.
2021 OUTR Best Thesis Award: Received nomination for my undergraduate the dergraduate batch.	sis among 1200+ students in 2021 un-