

Ishan Nangia

ishannangia.123@gmail.com | [linkedin.com/in/ishan-nangia-413571114/](https://www.linkedin.com/in/ishan-nangia-413571114/) | beatboxerish.github.io | github.com/beatboxerish

EDUCATION

Sri Venkateswara College, Delhi University <i>Bachelor of Science (Honors) in Statistics</i> CGPA	Delhi, India 2016 – 2020 8.43/10
Delhi Public School, Sec-45 <i>C.B.S.E (Class XII)(Commerce)</i> Percentage	Haryana, India 2014 – 2015 96%

SELECTED WORK EXPERIENCE

<u>Computer Vision Researcher</u> <i>Technology for Wildlife Foundation</i>	Dec 2023 - Jun 2024
<ul style="list-style-type: none">Designed and implemented SOTA computer vision pipelines for wildlife conservation firms across IndiaDesigned pipeline to collect primary data, merge drone and satellite data, and produce geospatial degradation maps for restoring a 44+ ha degraded evergreen forestPreprocessed and manipulated multimodal data from TIFFs, GeoJSONs, and GPX files using QGIS, Felt, and python to produce geospatial maps to enable labelling of forest degradation indicatorsBuilt YOLO and Detectron2-based models for semantic segmentation of orthomosaics to aid expert annotatorsEstimated drone parameters along with their errors for DJI Mini2 and DJI Air2S through self-devised field work experimentsApplied single-image photogrammetry formulae to obtain morphometric measurements of Gangetic river dolphins which will be published in a research paper	
<u>Core Team Member</u> <i>Coastal Impact</i>	Jul 2023 – May 2024
<ul style="list-style-type: none">Worked as a conservation scuba diver, data scientist and writer with Coastal ImpactScuba dived at Grande Island to set up 50+ artificial reefs, transplant 800+ coral fragments, conduct 10+ marine surveys, and collect primary data for segmenting coral images over 50+ divesTrained multiple YOLO-based instance segmentation models to segment corals from our artificial reef images with the best mAP50 as 0.97 resulting in saving 100+ manhours of labellingWrote code to automate multiple tasks for Coastal Impact, started their monthly newsletter on Substack, and built 3D models of underwater objects using Agisoft Metashape and Affinity	
<u>Solo Founder</u> <i>FotoMaker</i>	Jan 2023 – Jun 2023
<ul style="list-style-type: none">FotoMaker was a SaaS that allowed users to create market-ready product creatives using SOTA stable diffusion-based techniques.Working on this full-time, I worked with 15+ D2C clients, conducted 80+ interviews with potential users, built a fully functional web application from scratch, worked on frontend with ReactJS and backend with Python, set up serverless deployments of custom stable-diffusion models and so much more!	
<u>Data Scientist</u> <i>Locus.sh</i>	Dec 2021 – Dec 2022
<ul style="list-style-type: none">Worked on projects involving building of a forecasting system, thorough cleaning and modelling of unclean data, ranking systems, and creation of our data pipeline.Engaged in dealing with different stakeholders, clients, and writing product specs.	
<u>Visiting Scholar</u> <i>Max Planck Institute for Software Systems</i>	May 2021 – Oct 2021
<ul style="list-style-type: none">Worked under Dr.Krishna P. Gummadi on problems involving Reinforcement Learning, Dynamic Programming, and Fairness in Machine Learning.	
<u>Machine Learning Research Assistant</u> <i>Indian Institute of Technology Delhi</i>	Jul 2020 – Mar 2021
<ul style="list-style-type: none">Worked under Dr.Rijurekha Sen on problems involving Spatiotemporal Interpolation, Gaussian Processes, Differential Privacy and Graph Neural Networks.	

SELECTED ACHIEVEMENTS

- Organised and hosted the inaugural Climate Party in Goa in May'24 with over 20+ selected attendees from founders to artists to investors working in the climate sector
- Have volunteered consistently with NGOs where I have taught beatboxing to underprivileged children, set up machine learning projects for elephant detection, and analysed marine stranding data
- Co-authored [this](#) NDSS 2022 paper on air pollution monitoring