

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

Delhi, India

Bachelor of Science (Honors) in Statistics

2016 – 2020

CGPA

8.43/10

Delhi Public School, Sec-45

Haryana, India

C.B.S.E (Class XII)(Commerce)

2014 – 2015

Percentage

96%

SELECTED WORK EXPERIENCE

Computer Vision Consultant | *Technology for Wildlife Foundation*

Dec 2023 - Present

- **Designed pipeline to collect primary data, merge drone and satellite data, and produce geospatial degradation maps** for restoring a degraded evergreen forest.
- Used **YOLO and Random Forest models** for **semantic segmentation** of drone-based orthomosaics and satellite imagery.
- **Designed and performed field work experiments** to calibrate drone parameters and collect primary data.
- Used **single-image photogrammetry** to obtain **morphometric measurements** of wild animals.
- Combined multimodal data from **TIFFs, GeoJSONs, and GPX** files with **QGIS, Felt, and python** to produce geospatial maps.
- **Wrote technical blogs** to communicate our research and findings.

Core Team Volunteer | *Coastal Impact*

Jul 2023 – Present

- Scuba dived as a **conservation diver** at Grande Island to transplant corals, conduct marine surveys, and collect primary data for segmenting coral images.
- Set up labelling pipeline for creating **datasets for coral detection**.
- **Used YOLO and other foundation segmentation models** to segment corals from our artificial reef images.
- Learnt to **ID fishes**, work on **AI-based color correction of underwater imagery**, and **built 3D models of artificial reefs** using Agisoft Metashape and Affinity.
- Wrote code to automate multiple tasks for Coastal Impact, **organised their workspace** and data documentation with **Quire and Notion**, and **started their monthly newsletter on Substack**.

Solo Founder | *FotoMaker*

Jan 2023 – Jun 2023

- 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 product from scratch**, worked on **frontend with ReactJS** and **backend with Python**, set up **serverless deployments of custom stable-diffusion models**, etc.

Data Scientist | *Locus.sh*

Dec 2021 – Dec 2022

- 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**.

Visiting Scholar | *Max Planck Institute for Software Systems*

May 2021 – Oct 2021

- Worked under **Dr.Krishna P. Gummadi** on problems involving **Reinforcement Learning, Dynamic Programming, and Fairness in Machine Learning**.

Machine Learning Research Assistant | *Indian Institute of Technology Delhi*

Jul 2020 – Mar 2021

- Worked under **Dr.Rijurekha Sen** on problems involving **Spatiotemporal Interpolation, Gaussian Processes, Differential Privacy and Graph Neural Networks**.

RESEARCH PAPERS

Privacy in Urban Sensing with Instrumented Fleets, Using Air Pollution Monitoring As A Usecase ([NDSS 2022](#))

SELECTED COURSES

Climate Change: Learning for Action | *Terra.do*

Jul 2023 – Oct 2023

- A deep dive into the full climate change landscape with a 12-week climate education and solutions bootcamp.

AI and Data Science Courses | *Udacity, Coursera, Udemy*

2020 – 2023

- Completed multiple online courses in the field of AI and data science to ensure continuous learning in the topics of Deep Learning, Computer Vision, Statistical Machine Learning, etc.