

Ishan Nangia

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EDUCATION

Sri Venkateswara College, Delhi University

Bachelor of Science (Honors) in Statistics

CGPA

Delhi, India

2016 – 2020

8.43/10

Delhi Public School, Sec-45

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

Percentage

Haryana, India

2014 – 2015

96%

SELECTED WORK EXPERIENCE

Computer Vision Consultant | *Technology for Wildlife Foundation*

Dec 2023 - Present

- Working on **analysing drone and satellite imagery** using computer vision models.
- Working on **ecological restoration and wildlife conservation projects** across India.

Solo Founder | *FotoMaker*

Jan 2023 – Jun 2023

- FotoMaker is a SaaS that allows users to **create market-ready product creatives** using **SOTA stable diffusion-based techniques** in a 2 minute process.
- Working on this full-time I have worked with **15+ D2C clients**, **conducted 80+ interviews** with potential users, developed a strong market understanding, 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**, **NLP methods**, 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**.

Research Intern | *Indraprastha Institute of Information Technology Delhi*

Mar 2021 – Oct 2021

- Worked under **Dr.Tavpritesh Sethi** on building a **Reinforcement Learning-based Android Launcher for People with Motor Impairments**.

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**.

Statistics Research Assistant | *Sri Venkateswara College, Delhi University*

Jan 2020 – Mar 2020

- The **only student selected from my batch** to work under Dr. Veena Budhraj on her **Design of Experiments** research.

Machine Learning Intern | *Genpact, Noida*

Jun 2019 – Aug 2019

- Used **multiple classification models** to classify emails into different types and subtypes. **Increased accuracy from 30% (baseline) to 75%**.
- Performed **classification of emails** to identify which ID they were coming from (**over 7000 different unique IDs**) based on extremely sparse information.

SELECTED VOLUNTEERING EXPERIENCE

Core Volunteer | *Coastal Impact*

Jul 2023 – Present

- Working on creating **datasets for coral detection, IDing fishes**, building a **machine learning pipeline for coral segmentation**, and working on other **data science and 3D modelling** efforts .
- Working as a **conservation scuba diver** and diving around Grande Island to **transplant corals and conduct marine surveys**.

Volunteer Data Scientist | *Terra Conscious*

Sep 2023 – Nov 2023

- Performed **statistical analysis, visualisation, and reporting** of marine mammal stranding data of Indian coasts in order to facilitate policy decisions and awareness campaigns.

Volunteer Data Scientist | *A Rocha India*

Jul 2022 – Sep 2022

- Created and managed multiple projects including **building a dashboard for wildlife monitoring in Bannerghatta** and a **Re-ID/Annotation system**.
- Doubled up as a product manager to help manage projects using **Trello** and **wrote extensive product specs** along with **performing feature/product prioritization**.

Data Science Intern | *Red Dot Foundation-Safecity*

Aug 2019 – Sep 2019

- Built a **chatbot using Dialogflow** and python for Safecity's website and Facebook page and also **deployed it using Flask**.
- Customized it to answer varied queries and analyze intent and **scraped to build a database** of Indian NGOs.

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

- I have 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.

TECHNICAL SKILLS

Languages: Python, C/C++, R, Javascript

Libraries and Frameworks: gpytorch, gpflow, gpy, matplotlib, seaborn, sklearn, pandas, numpy, fast.ai, keras, pytorch, opencv, pillow, geopandas