

Jay Gala

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EDUCATION

NMIMS University, Mumbai

Dual Degree: Bachelor of Technology in Computer Science + MBA in Analytics

CGPA: **3.53/4.00**

May 2019 - May 2024

Google Machine Learning Bootcamp

Topics covered: Deep Learning theory, CNNs, RNNs, and Tensorflow

July 2022 - Dec 2022

EXPERIENCE

Research Intern, Indian Institute of Technology (IIT) Patna

May 2023 – Present

- Exploring **computer vision** applications for skin cancer detection and segmentation using **Self-supervised, few shot, and meta-learning techniques**
- Advisor: Dr. Sriparna Saha

Prep Fellowship, Major League Hacking (MLH)

Apr 2023 - Apr 2023

- Improved the loading time of a website by **50%** by writing a **GitHub Action** to **compress pushed images**
- Integrated **OpenWeather** and **SkyScanner Flights APIs** to build a trip planner app using **ReactJs**

Software Engineering Intern, Conbi

Jul 2022 – Oct 2022

- Facilitated **data flow** between **Snowflake** and Conbi by building **REST APIs** with Python & **Postman**.
- Enhanced utility by integrating **Salesforce, Hubspot**, and **GCP** with **slack bot** using **Python**.
- Established the **backend** for the web app using **Flask** and **Firebase**.

Data Scientist Intern, Analytica

Jan 2022 – Feb 2022

- Provided **customer behaviour** insights by cleaning and **visualising user data** with **matplotlib** & **seaborn**.
- Recommended **data-backed product launches** in **5 colleges** with **machine learning models** using **Sklearn**.
- Compiled **reviews** from the **top 100 courses** on Udemy using **web scraping** for **sentiment analysis**.

PROJECTS

Illegal Fishing Detection (Final Year Research Project) | Python, Computer Vision, TensorFlow

[Demo]

- Identifying vessels and detecting Illegal fishing using Satellite Imagery and **Deep Learning**
- Advisor: Prof. Prashasti Kanikar

Image captioning | Python, PyTorch, Hugging Face

[Code][Demo]

- Used pre trained **VisionEncoderDecoderModel** and **ViTFeatureExtractor** from Hugging Face to generate captions for images and connected them to a streamlit frontend for an interactive demo

KerasCV - Open Source | Python, Computer Vision, TensorFlow, Git

- A new deep learning library that provides Computer Vision components in the Keras ecosystem for Tensorflow
- Latest PR (MixedPrecisionTest)**: [Link](#)

PUBLICATIONS

Agarwal, A., **Gala, J.**, Mantha, S., Katariya, Y., & Kanikar, P. (2023). A Review on Detecting Suspicious Fishing Activity. Paper presented at the International Conference on Intelligent Computing and Networking (ICICN-2023)

Agarwal, A., **Gala, J.**, Mantha, S., Katariya, Y., & Kanikar, P. (2023). Identifying Suspicious Fishing Activity based on AIS Disabling Events. (Preprint)

SKILLS

Python, **NumPy**, **Pandas**, **Matplotlib**, **TensorFlow**, **PyTorch**, **Keras**, **Sci-kit learn**, **C++**, **HTML**, **Git**, **Docker**, **Flask**, **Computer Vision**, **Natural Language Processing / Language Modelling**, **SQL**, **MongoDB**, **Data Structures & Algorithms**