

Jay Gala

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EDUCATION

NMIMS University, Mumbai

Bachelor of Technology in Computer Science + MBA in Analytics

CGPA: **3.53/4.00**

May 2024

Google Machine Learning Bootcamp India

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

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 Udemey 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

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)

OPEN SOURCE / PROJECTS / PUBLICATIONS

KerasCV - Open Source Contributor | *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](#)
- **Merged PR (FasterRCNN API)**: [Link](#)

SKILLS

Languages: Python, C++, Node.js, Shell Scripting, PHP, **SQL**, **HTML/DOM**, **CSS**, **AJAX**

Developer Tools: **Git**, Docker, Google Cloud Platform, **VS Code**, Visual Studio, Postman

Libraries/Frameworks: **TensorFlow**, **PyTorch**, **Keras**, Sklearn, Pandas, NumPy, Matplotlib, Flutter, Flask

Other: **Data Structures & Algorithms**, **NLP**, **Computer Vision**, REST API, MongoDB

CERTIFICATIONS & ACHIEVEMENTS

Co-Founder & HOD, CodeChef MPSTME Chapter (Nov 2020 - May 2022)

TensorFlow Developer Certification, Google: [Link](#)

Google ML Bootcamp (MLB) 2022: [Link](#)

Deep Learning Specialization, DeepLearning.ai & Coursera: [Link](#)

Finished 11th in the NPCI National AI & ML hackathon

Machine Learning to Deep Learning, ISRO: [Link](#)