

EISHKARAN

India · eishkaransingh@gmail.com · +91 7087694506 · [Github](#) · [Linkedin](#)

EDUCATION

Thapar Institute of Engineering and Technology

BTech Computer Engineering

Patiala
September 2021 - Present

Indian Institute of Technology

Bs Data Science and Applications

Madras
January 2022 - Present

EXPERIENCE

Indian Institute of Technology Indore

July 2023 - Present

Research Intern under prof. (Dr.) Chandresh Kumar Maurya

- Proficiently contributed to the alignment of diverse text-to-text and text-to-audio scripts across 14 distinct Indian languages, employing a range of advanced aligner tools.

Indian Institute of Technology Mandi

June 2023 - Present

Research Intern under prof. (Dr.) Varun Dutt

- Orchestrated migration of local workflows to servers using automation and DevOps principles, optimizing operational efficiency and boosting machine learning model accuracy.

Indian Institute of Technology Roorkee

July 2023 - August 2023

Research Intern under prof. (Dr.) Mayank Goswami

- Engineered a Unet34 model to facilitate accurate dice coefficient calculation and segmentation of medical images.

Thapar Institute of Engineering and Technology

May 2023 - Present

Research Intern under prof. (Dr.) Sachin Kansal

- Developed an efficient pipeline for extracting frames from video data, utilising advanced image processing techniques, parallel processing, and error handling.
- Optimised the pipeline's performance, enabling swift extraction of frames from large-scale video datasets while ensuring accuracy and data integrity.
- Leveraged Beautiful Soup and bs4 libraries to surpass Google Translate's 3900-character limit, enabling translation of unlimited text seamlessly.

Thapar Institute of Engineering and Technology

June 2023-July 2023

Guest Lecturer

- Invited as guest of honour to deliver the lecture in Thapar summer School of Machine learning and deep Learning and delivered 6 lectures on Image Processing and natural language processing.

PROJECTS/ACHIEVEMENTS

PixelMind AI

May 2023

- Paradox'23 in Indian Institute of Technology Madras organised a contest in the domain of Image enhancement for students and industry professionals where I won 2nd Position and won a cash Prize of Rs.50K.
- Used SRGAN to enhance the pixel resolutions and then used various gaussian filter to enhance the quality of image.

Kaggle 3X- Expert

June 2023

<https://www.kaggle.com/eishkaran>

- On my Kaggle Profile, I have demonstrated my ability to analyse datasets and create effective solutions. By leveraging my skills in exploratory data analysis and algorithm tutorials. I have established myself as a 3x-Kaggle expert and I am committed to continuing to hone my skills in this field. I have been awarded with 19 bronze medals and 1 silver medal till now
- BirdCLEF 2023 (Organised by Cornell Lab of Ornithology on Kaggle Platform) Got a rank of 169 out of 1189 teams participating all across the globe and was in top 15% in which I predicted the sounds of the birds using the PyTorch and applied various DL algorithms

CycleGan

June 2023

<https://github.com/EISHKARAN/CycleGan>

- Utilising my expertise in PyTorch and TensorFlow, I made and implemented a robust CycleGAN solution for generating high-quality Monet-style images from ordinary photographs and ranked 19th out of 39 teams
- Employed a hybrid approach involving the CycleGAN generator and U-Net architecture, combining downsampling and upsampling blocks for effective image transformation and reconstruction.

SKILLS

Programming Languages:	Python, C++ ,C
Database Management Systems:	MySQL , Oracle
Web Development:	HTML , CSS, JavaScript
Libraries / Frameworks:	Pandas, Numpy, Seaborn, Tensorflow, Pytorch, XGBoost, scikit-learn, OpenCv
Machine Learning:	Regression, Classification, Clustering, Neural Networks, Deep Learning
Soft Skills:	Public Speaking, Leadership

MISCELLANEOUS

Career Certificates

Jan 2023

Python, MySQL, Pandas, Supervised Machine Learning, Advanced Algorithms

Silver Zone Olympiad

September 2020

International Informatics Olympiad