

# EISHKARAN SINGH

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## 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

### Thapar Institute of Engineering and Technology

June 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.

### Thapar Institute of Engineering and Technology

June 2023

*Guest Lecturer*

- Invited as guest of honour to deliver the lecture in Thapar summer School of Machine learning and deep Learning and delivered 3 lectures on Image 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 2X- 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 2x-Kaggle expert and I am committed to continuing to hone my skills in this field. I have been awarded with 16 bronze medals 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
- Used the CycleGan generator along with U-net which consisted of a sequence of downsampling blocks followed by a sequence of upsampling blocks

### Stock Prices Prediction

June 2023

<https://github.com/EISHKARAN/Stock-Prediction-using-LSTM>

- Used Yahoo Finance dataset, to create visualisations for Apple, Google, Microsoft and Amazon stock data
- Developed a stock predictor using an LSTM model to forecast future stock prices.

### Blogs

April 2023

<https://medium.com/@eishkaransingh>

- I have authored concise and insightful technical blog posts on machine learning and statistics for data science, fostering knowledge sharing and intellectual growth within the community.

## 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

### Silver Zone Olympiad

September 2020

International Informatics Olympiad