

Yash Arora

✉ yasharora102@gmail.com | 🌐 yasharora102 | 🏠 yasharora102.github.io

Education

2021-2025 **B.Tech, Electronics and Computer Engineering**, *Amrita Vishwa Vidyapeetham*, Kerala, India, CGPA-**9.05/10**

Relevant Coursework

- CS231n Deep Learning for Computer Vision by Prof. Fei-Fei Li, Stanford University
- CS50 Introduction to Computer Science by Prof. David J. Malan, Harvard University
- 18.06 Linear Algebra by Prof. Gilbert Strang, MIT
- Coursera Machine Learning by Prof. Andrew Ng, Stanford University ([Coursera Certificate](#))
- Coursera Deep Learning by Prof. Andrew Ng, Stanford University ([Coursera Certificate](#))

Technical Skills

Frameworks PyTorch, TensorFlow, Django, Flask, Flutter, FastAPI

Projects

Computer Vision Models, [\[link\]](#)

- This project encompasses the implementation from scratch of several prominent SOTA Computer Vision models, including ResNet, EfficientNet, MobileNetV2, ResNeXt, GoogLeNet, VGG, and ViTs.
- These models are trained on the CIFAR-10 and CIFAR-100 dataset, and their performance is benchmarked against the original results as presented in their respective research papers.

Jovian Perspective, [\[link\]](#)

- The project aims to develop an easy-to-use desktop application which can process planetary images. It can process RAW images and perform various operations on the image such as auto-enhancement, sharpening, edge detection, increasing brightness, color variation, denoising and gamma correction.

Image Colorization API, [\[link\]](#)

- The Image Colorization API is a RESTful API that allows users to colourize black and white images using a pre-trained machine-learning model. With this API, you can easily integrate image colourization capabilities into your own applications, websites, or services.

SBIR-Baseline, [\[link\]](#)

- The project involves developing a baseline model using Triplet Loss for Fine-Grained Sketch-Based Image Retrieval. This model is trained on the Sketchy-COCO dataset, aiming to improve the retrieval accuracy for sketch-based image searches.

Fashion MNIST Classifier, [\[link\]](#)

- This project focuses on creating a deep learning Convolutional Neural Network (CNN) using PyTorch for the purpose of FashionMNIST image classification. The project's main goal is to train the CNN to accurately categorize different clothing items within the dataset, showcasing the effectiveness of PyTorch in developing a robust model for fashion image recognition.

Inventory Management System, [\[link\]](#)

- Developed an advanced Inventory Management System (IMS) with real-time tracking and efficient ticket generation and resolution. Effectively managed inventory across diverse infrastructures, buildings, and rooms, showcasing strong software development and problem-solving skills.

CineBot, [\[link\]](#)

- Cinebot is a Python-based Telegram bot that allows users to create and manage their movie watchlist. The bot allows users to add movie titles, release years, and IMDb ratings to their watchlist by making API calls to the Open Movie Database (OMDb).

MNIST Digit Classifier, [\[link\]](#)

- This project aims to build a convolutional neural network using Python and TensorFlow to classify handwritten digits from the MNIST dataset.