



Atin Bainada
Computer Science & Engineering
Indian Institute of Technology Bombay

190050024
UG Second Year
Male
DOB: 17/11/2002

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2021	8.15

Pursuing Minors in **Data Science**

SCHOLASTIC ACHIEVEMENTS

- Obtained a percentile of **98.82** in Joint Entrance Exam, Advanced among **1,70,000** candidates (2019)
- Secured a percentile of **99.88** in Joint Entrance Exam, Main among **1.14 million** candidates (2019)
- Recipient of the prestigious **Kishore Vaigyanik Protsahan Yojna (KVPY)** Fellowship awarded by the Department of Science and Technology, Government of India (2018)

KEY PROJECTS

Red Plag

Autumn 2020

Guide: Prof. Amitabha Sanyal — Course Project

IIT Bombay

- Developed a **Cloud Based rudimentary Plagiarism Checker** using **Django** for back-end and **HTML** for front-end where authenticated users have access to the services of the plagiarism checker
- Implemented user services like upload, download, change password, login and logout using **Django** authentication system and represented the results graphically via **Surface Plots** using **Matplotlib**
- Implemented the **Longest Common Subsequence** algorithm for document fingerprinting and calculating the **Covariance Matrix** for set of source files

Why the hype around GAN's

Summer 2020

Seasons of Code — Web and Coding Club

IIT Bombay

- Created **Deep Convolutional Generative Adversarial Network (DCGAN)** from scratch using **PyTorch** framework and trained it on **CelebA** dataset on Kaggle to generate **Deepfakes**
- Implemented **Convolutional Neural Network** using **PyTorch** and trained it on **MNIST** dataset of hand written digits and achieved an accuracy of **99.2%** on the Kaggle Digit Recognizer competition

Image Processing and Graph Plotting

Autumn 2020

Guide: Prof. Amitabha Sanyal — Course Project

IIT Bombay

- Utilized the **KMeans++** algorithm from the python **SciPy** library to smoothen high contrast images by replacing all color vectors in an image with their **K Cluster Centroids**
- Applied linear regression on **Levitt's Metric** to predict the end of covid pandemic in India
- Plotted 2D, 3D surface plot of any continuous function and their derivatives using **SciPy**, **Matplotlib**

POSITION OF RESPONSIBILITY

Teaching Assistant

Spring 2021

CH 107 — Physical Chemistry

IIT Bombay

- Among the **32 students** selected across all batches for teaching a class of **42 first-year students**
- Coordinated with the Professor to conduct regular **tutorial sessions** and **evaluate exam papers**
- Mentored the academically struggling students by conducting regular **help sessions**

TECHNICAL SKILLS

Programming Languages

Python(fluent), C, C++, Java, \LaTeX , Bash, MATLAB

Softwares & OS

AutoCAD, Android Studio, Bootstrap Studio, Git, SolidWorks, Ubuntu

Web Development

HTML, CSS, JavaScript, Bootstrap, Django, Angular, Jekyll

Data Science

TensorFlow, PyTorch, Keras, Numpy, Matplotlib, Pandas

EXTRACURRICULARS

- Surpassed typing speed of **68 WPM** on Nitro Type, an online **Competitive Typing** platform (2020)
- Completed **Observational Astronomy** course under Math and Physics Club, IIT Bombay (2020)
- Participated in the **RC Plane** Competition organized by Aeromodelling Club, IIT Bombay (2019)