Pinkesh Raghuvanshi	200050106
Computer Science & Engineering	B.Tech.
Indian Institute of Technology Bombay	Gender: Male
	DOB: 23/12/2002

Examination	University	Institute	Year
Graduation	IIT Bombay	IIT Bombay	2024

Scholastic Achievements

- Achieved **99.94 percentile** in JEE MAINS out of 1.2 million registered candidates *(2020)*
- Secured **All India Rank 334** in JEE ADVANCED out of 250,000 eligible candidates *(2020)*
- Awarded the prestigious **Kishor Vaigyanik Protsahan Yojana Fellowship** by Gov. of India *(2020)*

Professional Experience and Key Projects

Research Intern | *Philips India ltd, Bangalore* *(May'22 - July'22)*
- Explored **Nano Gastric Tube** (NGT) **Segmentation** from chest X-ray images using **Deep Learning**
- Studied **Generative Adversarial Networks** (GANs) to generate artificial dataset of chest x-ray images
- Identified methods to **segment Deep cortical substructures** from unlabelled **Brain MRI images**
- Analyzed **20+** research papers to understand **U-net Architecture** for segmentation of medical images

Momentum Trading Algorithm | *TSS Learners' Space Project* *(Summer 2021)*
Python Bootcamp | TSS Learners' Space, 2020
- Implemented a **Trading Algorithm** to identify top stocks from a given list based on their past performance
- Applied the algorithm on sample dataset and plotted year vs networth graph, **achieving 11% returns**
- Analyzed the stocks using **Momentum Trading** approach and **numpy, pandas and matplotlib**

ECG Classification | *Self Project* *(Summer 2022)*
- Trained a **Convolutional Neural Network** using **Tensorflow** to classify heartbeats into 5 categories
- Improved unbalanced data using **SMOTE** technique and achieved an accuracy of **93.63%** on test dataset
- Used **Adam** optimizer and **Categorial Crossentropy** loss function with f1 score as the accuracy metric

Positions of Responsibility

Institute Internship Coordinator | *Placement Cell, IIT Bombay* *(Jun'22 - Present)*
- Part of a **24-membered team** that is entrusted for streamlining internships for over **2000+ students**
- **Building and fostering relations** with leaders across **200+ firms** in Software, Quantitative Trading, Analytics, Consult, Finance, Banking, FMCG, Product Management and other core engineering sectors
- Envisaging **15% y-o-y increase** in internships by **focused contacting** and **detailed data mining**
- Statistically analyzed students' preferences and created an extensive yearlong **plan of action** accordingly
- Facilitating the organization of **resume making sessions** and **internship preparation talks**

Teaching Assistant | *Quantum Mechanics and Electricity & Magnetism* *(Spring 2022)*
- Appointed as **Teaching Assistant** for **Quantum Mechanics** based on interviews and presentations
- Mentoring **41** students by explaining concepts through presentations in **weekly tutorial sessions**

Extracurricular Activities

- Completed an year-long course in **Badminton** under **National Sports Organisation** at IIT Bombay
- Mentored a group of **5 students** for **Financial Mathematics** course as part of Summer of Science 2022
- Completed **Python Programming** and **LaTeX** bootcamp conducted by TSS learners' space
- Attended the **Basics of Hacking** session conducted by Cybersecurity Club at IIT Bombay
- Volunteered to help a team **250+** members for **interviews of 1700+ students** during placements