Linisha Yellapu   **210070049**
Electrical Engineering   **B.Tech.**
Indian Institute of Technology Bombay   **Gender: Female**
          DOB: 11/10/2003

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2025	

SCHOLASTIC ACHIEVEMENTS

- Secured **99.57** percentile in **JEE-Main** amongst **12 lakh** candidates; ranked **top 3%** in JEE Advanced — *'21*
- Secured **State Rank 525** in **TS EAMCET** Examination out of over **220,000+** candidates — *'21*
- Achieved **State Rank 18** (AP State) in **NTSE** Stage 1 and **qualified** NTSE Stage 2 Examination — *'19*
- Awarded **Certificate of Merit** for being among **All India top 0.1%** of students in **CBSE** Social Sciences *'19*

RESEARCH & TECHNICAL EXPERIENCE

Robotics | Summer of Sciences | IIT Bombay   *May-Jul'23*
- Learnt concepts in control systems like **Radars**, System Identification, **Deep Learning** and Systems Engineering
- Studied control strategies for **Autonomous Navigation** with Robust control, Sensor fusion and Tracking.
- Understood **Reinforcement Learning** and the concepts of Drone simulation & control and **PID controller**

WiFi Controlled Racing Bot | XLR8 | Electronics and Robotics club | IIT Bombay   *Aug'22*
- Designed and constructed a **Robotic Car** by assembling electrical and mechanical components in a team of 4.
- Interfaced **ESP32** Micro-controller with **L293D Motor driver** to make an **obstacle overcoming** racing bot.

KEY PROJECTS & WORKSHOPS

Personal Portfolio Website Design | Self Project   *Jun'23*
- Developed a personal portfolio website using **HTML, CSS** and **Javascript** and hosted it using GitHub Pages
- Added interactive elements and animations, enhancing user engagement ensuring **seamless responsiveness**

Data Science Project | Learners' Space, IIT Bombay   *Jul'23*
- Acquired knowledge in algorithms, ML and analysed the **stock trends** of a company from **Nifty-50** and built and trained a linear regression model to **predict** the **closing price** of stocks and plotted complex data landscapes
- Achieved **R-squared** value of 0.996 and 0.965 for training and test data by selecting the appropriate parameters

Password Access | Course Project | Prof. Saravanan Vijayakumaran   *Mar'23*
- Wrote an embedded C program to read password using **keypad** and display on **LCD** if access is granted or denied
- Studied internal circuit of the keypad and **interfaced** with Atmel AT89C5131A Microcontroller of Pt-51 board

Financial Research Analysis Project | FinSearch | Finance Club, IIT Bombay   *Jul-Sep'22*
- Performed research upon understanding the effect of **interest rate hikes** on **stock**, **bond**, **derivatives** and **commodities market** and studied **inflation rate**, federal fund rates and various other aspects in a team of 3

Excel and SQL for Big Data Handling | Learners' Space, IIT Bombay   *Jul'23*
- Learnt advanced functionality of **Excel** with functions, pivot tables, dashboarding, etc., and gained essential skills and knowledge to effectively manage and handle large-scale datasets using **Structured Query Language** (SQL)

Machine Learning Specialization | Coursera   *Ongoing*
- Built and trained supervised ML models and neural networks using **NumPy**, **scikit-learn** and TensorFlow for prediction and classification tasks and built and used **decision trees** and **tree ensemble methods**
- Built a deep reinforcement learning model and **recommender systems** with a collaborative filtering approach

Web Development Bootcamp | Zuitt Coding Bootcamp   *Ongoing*
- Learnt **Backend** and **Full Stack** web technologies such as NodeJS, ExpressJS, MongoDB, Rest API & ReactJS
- Developed **Server-side** applications using backend technologies for data manipulation and **user authentication**

TECHNICAL SKILLS

Languages	Python, VHDL, Assembly, Embedded C, C++
Web Technologies	HTML, CSS, Javascript, Bootstrap, NodeJS, ReactJS, Mongoose, Rest API
Database	SQL, MongoDB
Libraries	NumPy, Pandas, Seaborn, scikit-learn, Matplotlib
Tools & Softwares	Git, Github, LaTeX, NgSPICE, Quartus, Keil μVision, Microsoft Office

EXTRA-CURRICULAR ACTIVITIES

- Undergone an **Year Long** training in **Athletics** under **National Sports Organisation** IIT Bombay
- Ideated and built a **business model** aimed to launch **Electric Vehicles** in India by collaborating with well established foreign EV companies as a part of **Enb Buzz** competition by **Enb club**, IIT Bombay
- Secured **District 1st** position(under 10) in District **Open Chess Championship** conducted by **India Post**
- Volunteered and actively participated in **Memu Saitham Community Service Programme**
- Participated in the **Self-defence** workshop organised by **Abhyuday**, the Social Body of IIT Bombay
- Successfully completed **Machine-Training Workshop** at Tinkerers' Laboratory, IIT Bombay and gained proficiency in using machines and tools such as 3D Printer, Milling Machine, Power tools, etc. at TL
- Worked on analysis of Weighted Average Cost Capital in **Corporate Finance** as a part of FinSearch '23*(Ongoing)*
- Built a Remote Controlled Plane using aerodynamic concepts & suitable aspect ratios for **RC Plane** Competition