Scholastic Achievements

- Pursuing a **Minor** degree from the Department of **Systems and Control Engineering**, IIT Bombay ['21-Present]
- Secured an **All India Rank 2180** amongst 0.25 million candidates in **Joint Entrance Examination, Advanced** ['20]
- Attained an all India **99.55 percentile** amongst 1.2 million candidates in **Joint Entrance Examination, Mains** ['20]
- Bagged full grade **AA** in **5** Mechanical core courses awarded to top performing students in that course

Technical Projects

Breast Cancer Classification | Self Project [Jul'22]

- Performed **Engineering Data Analysis** and visualization using **Pandas, Seaborn** and **Matplotlib** on breast cancer dataset
- Employed **Multi-Layer Perceptron** Neural Networks model for classification using **Tensorflow** and **Keras** libraries
- Achieved **94%** accuracy on testing data for classification of breast cancer tumor cells as benign or malignant

Real Estate Price Prediction | Self Project [May'22]

- Implemented **data cleaning, outlier detection** and **dimensionality reduction** on real estate housing price dataset
- Built a Linear Regression model for price prediction using **SkLearn, NumPy** and **Pandas** libraries in Python
- Applied **K-Fold** Cross Validation and **GridSearchCV** to find the best model and achieved a best score of **85%**

Spam Mail Detection | Self Project [Jun'22]

- Utilized **TfidfVectorizer** feature from **SkLearn** library to transform text data to feature vector by using **TF-IDF** method
- Developed a **Logistic Regression** model for classifying emails as spam or non-spam with an accuracy of **97%** on test data

Data Analysis and Sales Insights | Self Project [Dec'21]

- Performed **data analysis** using **MySQL** and data cleaning, transformation and visualization using **Power BI** on sales database
- Designed a **sales insights dashboard** on **Power BI** depicting revenue trends and a separate mobile application dashboard

Analysis of Laser Surface Hardening [Jan'22-Apr'22]
Course Project | Prof. Ramesh Singh, Department of Mechanical Engineering

- Analysed the effect of varying **laser power** and **laser processing speed** on the surface hardness and the depth and width of the deepest hardened zone by taking cross sectional views of laser treated carbon steel under an optical microscope
- Gained hands-on experience on techniques like **Grinding, Laser Hardening** and **Wire Electrical Discharge Machining**
- Worked in a team of **5** to prepare **2** term reports and delivered **2** term presentations to the batch strength of **80+** students

Creep Deformation in Solder Wire [Mar'22-Apr'22]
Course Project | Prof. Krishna N Jonnalagadda, Department of Mechanical Engineering

- Studied the effect of **uniaxial loading** on **creep deformation** of solder wire at room temperature for **3** different weights
- Conducted experiments to measure the **stress exponent** by plotting **strain-time** curves and **self-designed** the apparatus
- Worked in a team of **4** to prepare **3** weekly reports and delivered the final presentations to the batch strength of **80+** students

Research Interests

- Computer Vision, Natural Language Processing(NLP), Reinforcement Learning, Data Structures and Algorithms(DSA)

Positions Of Responsibility

Coordinator, Horizons | 51st Edition | Mood Indigo, IIT Bombay   [May'21-Jan'22]

Asia's Largest College Cultural Festival | 1,00,000+ viewership | 3+ hours viewing time

- Inviting **5+** artists from **2+** countries to exhibit international performances at the 51st edition of Mood Indigo
- Ideating and structuring **Humorfest**, the flagship comedy event of Mood Indigo that reached **5,000+** viewership
- Spearheading negotiations with renowned Indian artists to curate unique and interactive events in the festival

Operations and Marketing Coordinator | The Entrepreneurship Cell, IIT Bombay   [Jun'21-Jan'22]

Asia's Largest Entrepreneurship promoting student body by NEN | patronage from UNESCO

- Working in a team of **30** to pursue the marketing budget and deliverables to fit in the online ecosystem
- Ideating and executing multiple publicity campaigns to increase the reach of Eureka! : Asia's largest business model competition with **12.5k+** entries and prizes worth **INR 8 million**
- Ideating social media campaigns on E-Cell's social media pages (**460k+** likes on Facebook and **20k+** followers on Instagram)

Area of Expertise

Skills:	• **Prog. Languages:**	Python, C++, LaTeX
	• **Data Science:**	Numpy, Pandas, Sklearn, Kaggle, MySQL
	• **Data Visualization:**	Matplotlib, Seaborn, Power BI, Tensorflow, Jupyter, Colab
	• **Other Softwares & OS:**	CNC Simulator, CAMotics, Windows, Excel, Powerpoint, VS Code
Online Courses:	Supervised Machine Learning, Advanced Learning Algorithms on coursera	

Key Courses Undertaken

Core Courses	Solid Mechanics, Thermodynamics, Fluid Mechanics, Structural Materials, Strength of Materials, Manufacturing Processes I, Mechanical Measurements, Engineering Graphics and Drawing, Engineering Mechanics
Maths and Physics	Introduction to Numerical Analysis, Linear Algebra, Differential Equations, Calculus I, Calculus II, Basics of Electricity and Magnetism, Quantum Physics and Application
Other Departments	Computer Programming and Utilization, Introduction to Electrical and Electronics Circuits, Mathematical Structures for Control, Signals and Feedback Systems, Economics, Biology, Organic and Inorganic Chemistry, Physical Chemistry
Lab Courses	Manufacturing Practice Lab, Solid Mechanics Lab, Fluid Mechanics Lab

Extra Curriculars

NSS	• Devoted **80+ hours** of volunteering work for Non-Governmental Organizations(NGOs) under the National Service Scheme(NSS), IIT Bombay to promote educational outreach • Took online classes of students studying in class 8th-12th while working for NGOs **Vidya** and **LCCWA**
Cultural	• Participated in the **Actomania and Crossover Corundum** competition organised by **Fourthwall**, The Dramatics Club of IIT Bombay and won the award for **top 3** performers • Secured **4th** position in sports crypt hunt event conducted by Sports Council, IIT Bombay
Sports	• Professionally trained in **cricket** for about **one year** from a registered cricket academy • Participated in intra-hostel cricket league **H3CL** and stood **3rd** out of **8** teams
Social	• Completed the course **Gender in the workplace** offered by **Gender Cell**, IIT Bombay • Solved **100+** questions of Calculus as a **Chegg** expert helping hundreds of students globally
Technical	• Attended **ML Workshop** by **Edureka** covering basic elements of **ML** and **Data Science** • Pursuing **Entering Financial Markets** and **Game Theory** courses on **Learner's Space**, IIT Bombay • Enthusiastic python programmer; **5 star** gold badge holder on online coding platform, **Hacerrank**