

SCHOLASTIC ACHIEVEMENTS

- Secured **Top 3.3 Percentage** in **JEE Advanced Examination** among 0.18 million+ candidates ('23)
- Achieved **99.78 percentile** in **JEE Main Examination** among more than 1.1 million candidates ('23)
- Achieved **99.77 percentile** in **TS EAMCET** among 0.3 million+ candidates from Telangana ('23)

KEY PROJECTS

Reinforcement Learning | *Seasons of Code*

(Summer '25)

WnCC, IIT Bombay

- Designed RL agents to play the **snake** game using both traditional **Q-Learning** and **Deep Q-Networks**
- Used techniques like replay and target networks to stabilize deep learning in **PyTorch** based DQN agents
- Compared overall performance of Q-Learning and DQN using training graphs and average episode rewards
- Improved the project by implementing **PPO** and testing convolutional DQNs with OpenAI Gym

Face Recognition Project | *WIDS: Winter in Data Science*

(Winter '24)

Analytics Club, IIT Bombay

- Developed a **Siamese neural network** in **TensorFlow** for one-shot face verification, leveraging contrastive loss and training on structured triplets of anchor, positive, and negative images to learn facial similarity
- Implemented real-time image capture and pre-processing with **OpenCV** for triplet training sampling
- Combined **CNN** based feature extraction with computer vision to enable efficient face-based authentication
- Used **GPU acceleration** and custom data loaders to optimize triplet training and improve model performance

Next Word Predictor using Transformers | *Learners' Space*

(Summer '25)

WnCC, IIT Bombay

- Built and fine-tuned **GPT-2** transformer for next-word prediction using **WikiText-2** and **Hugging Face**
- Implemented tokenization, model adaptation, and preprocessing with **AutoTokenizer** and **Trainer API**
- Evaluated model using **perplexity** and **top-k** accuracy for predictive performance on structured text

OTHER PROJECTS

Gesture Based Text Creation And Recognition | *Self Project*

(Summer '24)

- Designed a high-precision **CNN** using **TensorFlow** for accurate **MNIST** handwritten digit recognition
- Used **MediaPipe** for accurate hand tracking and gesture recognition to enable contactless system interaction
- Implemented real-time gesture-based system controls by integrating **Pycaw** for volume adjustment and **WMI** for brightness control, enabling seamless, touchless interaction on Windows using hand tracking

Data Structures and Algorithms | *WnCC x GFG DSA Bootcamp*

(Summer '25)

WnCC, IIT Bombay

- Enrolled in **WnCC x GFG DSA Bootcamp**, learning core DSA with 300+ candidates through 5 contests
- Practiced core concepts like arrays, strings, linked lists, recursion, hashing, and time complexity analysis
- Strengthened understanding of sorting and searching algorithms through hands-on implementation
- Gained practical exposure to stacks, queues, binary trees, binary search trees, heaps, and tries

Portfolio Website Development | Self Project(Spring '25)

- Designed and developed a personal portfolio website to showcase projects, resume, and contact information
- Used JavaScript-based interactivity, for project filtering, smooth scrolling, and responsive navigation bar
- Deployed the portfolio website using GitHub Pages, ensured cross-device compatibility, improved load performance, and followed semantic HTML and CSS best practices for clean structure and appearance

POSITION OF RESPONSIBILITIES

Events and Public Relations Coordinator | E-Cell, IIT Bombay(2024-2025)

- Organized **EnB Meetup** and **Startup Expo** linking **150+** startups with **30+** mentors and investors
- Led **FInCoF** platform, onboarding **150+** startups and enabling **120+** student internships
- Contributed to **Founders' Garage**, helping **200+** enthusiasts explore startup ideas through **7** sessions
- Organized **E-Summit'25**, a flagship entrepreneurial event featuring speaker sessions, a startup pitch competition; led a team of **11**, handled speaker coordination, worked closely with PR and marketing team

SOC Mentor | Seasons of Code(Summer '25)

WnCC, IIT Bombay

- I have mentored 5 students during **SOC 2025** on the topic: **Web Development** for 6 weeks
- Guided mentees in building fully functional personal **portfolio** websites using HTML, CSS, and JavaScript
- Helped students understand concepts of responsive design, code practices, and Git-based project workflows

Mentor | Abhyuday, IIT Bombay(Winter '24)

- Mentored **30+** students from various colleges in planning impactful projects and exploring opportunities
- Conducted interactive sessions to enhance creativity through innovative tasks and hands-on activities
- Guided students in crafting strategies for social impact using real-world challenges and applied learning

TECHNICAL SKILLS

Languages	C++, Python, L ^A T _E X
Software	Git, LaserCad, Arduino IDE, Fusion360, Blender
Libraries	NumPy, Pandas, MatPlotLib, SciPy, Scikit-learn, PyGame, PyTorch, TensorFlow, Keras, Open CV, Mediapipe
Web Development	HTML, CSS, JavaScript

COURSES UNDERTAKEN

Computer Science	Computer Programming and Utilization
Data Science	Statistical Machine Learning and Data Mining, AI and Data Science
Mathematics	Numerical Analysis, Differential Calculus, Integral Calculus, Linear Algebra, Differential Equations
Chemical Engineering	Material and Energy Balances, Chemical Engineering Thermodynamics, Process Fluid Mechanics, Chemical Reaction Engineering, Heat And Mass Transfer, Separation Processes, Chemical Engineering Lab
Other	Intorduction to Classical and Quantum Physics, Chemistry of Main Group Elements, Doing Sociology, Introduction to Design, Biology, Economics, Chemistry Lab, Physics Lab, Gender in Workspace, Environmental Studies: Science and Engineering

EXTRACURRICULAR ACTIVITIES

- Completed a year-long training in cricket under the National Sports Organization (NSO)
- Competed in **kho-kho** tournaments like TELCA, GC, Freshiesta earning **2 Silver** and **3 Gold medals**
- Competed in **cricket** tournaments like Fresher's Cricket League, TELCA earning **2 silver medals**
- Engaged in sustainability efforts by participating in **beach cleanup** drives organized by **Abhyuday**, IIT Bombay's social body, promoting environmental awareness and community responsibility
- Designed an eco-friendly prototype in a **Design course** project, creatively re-purposing used Lay's packets into reusable and durable shopping tags to encourage plastic recycling and reduce environmental impact