



PARV SETH
Civil Engineering
Indian Institute of Technology Bombay

23B0652
B.Tech.
Gender: Male
DOB: 06/12/2004

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2027	8.5
Intermediate	CBSE	MDS Senior Secondary School	2023	95.40%
Matriculation	CBSE	Seedling Modern Public School	2021	96.80%

Pursuing a **Minor** degree in **Artificial Intelligence and Data Science** at the CMInDS , IIT Bombay

SCHOLASTIC ACHIEVEMENTS

- Awarded a total of **7 AA (10/10)** and **AB (9/10) Grades**, demonstrating an exceptional academic performance [2024]
- Achieved a percentile of **99.73** amongst **1M+** & **98.46** amongst **0.18M+** in JEE Main and Advanced examination [2023]

KEY PROJECTS

WiDS Project - Into the Realm of Neural Networks

[Dec '23]

Winter Project | Analytics Club, IIT Bombay

- Applied **Linear & Logistic Regression** with tuning using NumPy, Pandas, & Matplotlib to predict Coronary Heart Disease
- Achieved **94.39%** accuracy by developing a **PyTorch classifier** for handwritten digit recognition on the **MNIST dataset**
- Developed **CNNs**, with **80%** accuracy on the **Cats vs. Dogs** dataset and **85%** on the more complex **CIFAR-10** dataset

Blockchain Development

[Jun '24 - Jul '24]

Summer of Science | MnP Club, IIT Bombay

- HTML, CSS, JS, and React** expertise gained in front-end development for **Full-Stack Blockchain Development**, effectively integrating cryptographic protocols like **Digital Signatures** and **Secure Key Exchange algorithms** to enhance security
- Leveraging **Solidity Smart Contracts** , developed Twitter-like application to showcase blockchain-based solutions
- Built a **DApp** using **Web3.js** to display Ethereum account balances, demonstrating practical blockchain integration

Autonomous Vehicle Systems

[Mar '24 - May '24]

Self Project

- Part of Trainee program of the Driverless subsystem of **Racing team**, IIT Bombay of **30+ students**
- Developed advanced **Perception Systems** for autonomous vehicles, effectively integrating **Machine Learning, Deep Learning, & Computer Vision Models** like **YOLOv5, RektNet, & SIFT** to achieve high-accuracy real-time object recognition
- Designed **PID controllers** for drones and water systems, optimizing **path planning** and using **SLAM** for real-time maps
- Gained valuable expertise in **ROS** for signal processing and integrated **CAN networks** for enhanced vehicle communication

My Digital Portfolio

[Jun '24 - Jul '24]

Self Project | Front End Development

- Built a **responsive** web portfolio using **HTML, CSS, JavaScript, and Bootstrap** to showcase projects and design expertise
- Integrated **jQuery & jquery.animatedheadline.css** to add **dynamic animations** & enhance user interactions on all pages
- Utilized **Bootstrap.min.js, Modernizr.js, and jQuery** for cross-browser compatibility & responsive performance optimization

Universal Testing Machine

[Oct '23 - Nov '23]

Course Project | Course: MS101 (Makerspace)

Course Instructor: Prof. Krishna Jonnalagada

- Used **Autodesk Fusion 360** and **LaserCAD** to design a Universal Tensile Machine with advanced laser cutting techniques
- Automated tensile testing through **Arduino programming** to efficiently measure and analyze stress-strain variations
- Utilized **Keithley power supply, function generator, and oscilloscope** to gain experience with advanced equipment

Equity Research on Adani Green Energy Ltd.

[Sep '24]

Equity Research Competition | Finance Club, IIT Bombay

- Conducted a comprehensive equity analysis of Adani Green Energy Ltd., examining their **financial statements**, which included critical ratios such as **P/B, P/E, and EV/EBITDA**, complemented by detailed balance sheet and cash flow analysis
- Executed a **SWOT analysis**, assessing market position, asset portfolio & Power Purchase Agreements to gauge stability
- Justified **buy** call for the stock, as the company's strong **EBITDA** margins & targets present a prime investment opportunity

OTHER PROJECTS

Paytm Pitch Deck

[Oct '23 - Nov '23]

Course Project | Course: ENT101 (Introduction to Entrepreneurship)

Course Instructor: Prof. Anuradha Narsimhan

- Researched Paytm's **pre-2017 strategy**, covering customer targeting and value proposition, using reports and insights
- Analyzed Paytm's **revenue model**, key growth drivers, and competitive positioning in the digital payments landscape
- Investigated **recent developments** in Paytm, analyzing causes behind its downturn, regulatory impacts, and stock crash

Obstacle Maneuvering Bot

[Aug '23 - Sept '23]

XLRS | Electronics and Robotics Club, IIT Bombay

- Designed an **Remote Controlled Bot** with a unique chassis design in a team of 4 using **IC, L293D**, motor driver, **ESP32**
- Used **ESP32 micro-controller** in bot by using **differential mechanism** and syncing with an RC app via **WiFi** for best control
- Standardised the model from scratch by meticulously optimizing the Mechanical and Electrical Systems of the robot

Startup Ideation and Pitching Competition

[Oct '23 - Nov '23]

EnB Buzz | E-Cell, IIT Bombay

- Competed with over **100 diverse teams** to create VyaPyaar, an AI-driven startup empowering aspiring entrepreneurs
- Pitched VyaPyaar, an innovative app that identifies optimal locations for offline ventures, successfully convincing investors
- Crafted a compelling **Business Model Canvas (BMC)** and **pitch deck**, driving strategic growth and attracting investors

POSITION OF RESPONSIBILITY

ASMP Team Member | Student Alumni Relations Cell, IIT Bombay

[Jun '24 - Present]

Part of three tier team of **70+ members** fostering relations between **65k+ alumni** and **12k+ students** | Budget:**2.5Million+**

Key Initiatives	<ul style="list-style-type: none">• Executed a year long Mentorship Program catering 700+ students and 400+ alumni in 10+ sectors• Organized Mock Interviews for internships aiming at 100+ alumni to help 400+ 3rd year students• Contacted alumni from firms like World Quant, Bajaj Auto, Deloitte, L&T, CSDL, SBI, and the NSE to organize a Shadow Program benefiting over 300 students and enhancing their networking• Introduced Customer Relationship Management in the program , reducing allocation time by 70%
Leadership Qualities	<ul style="list-style-type: none">• Revamped mentorship allocation structure , leading to a 150% Y-O-Y mentee registration increase• Consolidated a mentor pool of 250+ alumni across 10+ sectors including consult , IT and finance

Treasurer Member | Earthquake Engineering Research Institute (EERI)

[Oct '23 - Jul '24]

Across **40+ top Universities**, **10+ countries** | Part of a **12-member team** managing operations and logistics | Budget:**1Million+**

- Revamped EERI sponsorship deck, created a database of **100+** potential partners for securing deals and sponsorships
- Helped secure sponsorship and effectively manage funds via **20+** targeted meets, negotiations & social media campaigns
- Resulted in an impressive **150% year-on-year increase** in funds through team contributions and dedicated efforts

TECHNICAL SKILLS

Languages	Python, C++, HTML, MATLAB, R, JavaScript (JS), TeX
Frameworks	Numpy, Matplotlib, Pandas, Scipy, PyTorch, TensorFlow, CSS, ReactJS, OpenCV, Bootstrap, ROS2
Softwares	AutoCAD Fusion 360, LaserCAD, Git, Arduino IDE, Jupyter Notebook, VS Code, Excel, Word, Canva

RELEVANT COURSES UNDERTAKEN

Data Science & ML	Programming for Data Science*, Supervised Machine Learning: Regression and Classification (Coursera), Advanced Learning Algorithms (Coursera)**
Mathematics and Programming	Calculus I and II, Linear Algebra, Differential Equations, Computer Programming and Utilization, Numerical Methods in Civil Engineering*, Probabilistic and Statistical Methods in Civil*

* To be completed by Dec '24 ** To be completed by Oct '24

EXTRA-CURRICULAR ACTIVITIES

- **Course Project (ENT603)**: A team of 7 conceptualized and developed an innovative **Portable Water Purifier**, identifying key challenges in water accessibility and conducting thorough **customer discovery** to understand user needs
- Showcased exceptional **oratory skills** by effectively briefing **300+** students on the Alumni Students Mentorship Program 2024
- Secured **3rd position** in **Ad-Making Competition** at Freshiesta, in a team of 4 to creatively make a video ad for a product
- Contributed to the **Mood Indigo Squad** in Mood Indigo '23 under the **Informals** section, supporting a footfall of **146k+**
- Completed a one-year **Basketball** course through National Sports Organization at IIT Bombay, enhancing skills and teamwork
- **Second position** in U-17 Inter-School Basketball competition displaying exceptional performance and teamspirit
- **National topper** in Spell Bee competition in VIII and XI classes & **Inter-School topper** in Hindi poem competition in VII class