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**B.Tech.**  
**Gender: Male**  
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Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2024	
Intermediate	C.B.S.E	Jawahar Navodaya Vidyalaya Pithoragarh	2019	94.60%
Matriculation	C.B.S.E	Jawahar Navodaya Vidyalaya Pithoragarh	2017	10

## SCHOLASTIC ACHIEVEMENTS

- Achieved top **1.2** percentile in **JEE Main** examination among **1.2 million** candidates across India [2020]
- Achieved top **1.5** percentile in **JEE Advanced** examination among **0.23 million** candidates across India [2020]

## WORK EXPERIENCE

### Supply Chain Intern | J.S.W Steel VJNGR Works

[May'23 - Jul'23]

Received Letter of Recommendation from Head LP Mills for excellent work ethic and sincerity

<b>Approach</b>	<ul style="list-style-type: none"> <li>Implemented storage solutions for TMT bundles at BRM, with over <b>1L+</b> tonnes monthly production</li> <li>Designed frontend of real time inventory dashboard by <b>React</b> seamlessly integrating <b>SPTS &amp; SAP</b></li> <li>Analysed daily production &amp; dispatch plan of <b>6+</b> months maintaining uniformity of <b>117+ SKUs</b></li> </ul>
<b>Impact</b>	<ul style="list-style-type: none"> <li>Identified <b>10+</b> scopes of improvement &amp; collaborated with <b>5+</b> departments to reduce TTAT <b>54%</b></li> <li>Estimated annual saving of over <b>INR 0.6M</b> and increased monthly dispatch by <b>16.5K</b> tonnes</li> </ul>

### Software Development Internship | KAGR

[Mar'23 - May'23]

- Architected & deployed resilient Django backend on **AWS EC2** infrastructure, intricately meshed with Amazon RDS
- Initiated full **CI/CD** via **GitHub Actions**, automating build, test, and deployment for streamlined software lifecycle.
- Designed & incorporated registration, OTP authentication, & secure payment gateway using **REST APIs** & encryption

### IT Operations Internship | ClearExam

[Jun'22 - Jul'22]

- Implemented **Knowledge Tracing Model** for predicting Profitability of correct answers based on past student response
- Employed algorithms like **KNN** , **SVM**, Neural Networks, Ensemble Model to get a prediction accuracy around **74%**

## KEY PROJECTS

### Neural Super Sampling | Course Project | Prof Biplab Banerjee

[Aug'22 - Nov'22]

Remote Sensing and Machine Learning II | C Minds

- Validated the **ECCV 2018** paper **ESRGAN**: Enhanced Super-Resolution Generative Adversarial Networks
- Used the **Residual-in-Residual Dense Block (RRDB)** as the basic network building unit of the architecture
- Created relativistic **Generative Adversarial Network(GAN)** to let the discriminator predict relative realness

### Maximizing Investment returns using RL | Finsearch | IIT Bombay

[June'23-Present]

- Developed and fine tuned a self learning trading agent using **Deep Q-Learning** to maximise investments returns
- Incorporated **E-greedy** strategy to balance exploration of new actions and exploitation of learned knowledge

### Summer of Science | Math & Physics club | IIT Bombay

[May'21 - Jul'21]

Successfully accomplished a 3 month long self study project in data structure and algorithm under M&P club , IIT Bombay

- Implemented data structures in C++ including stacks, queue, linked-list, binary tree, BST, & graphs
- Analysed efficiency of various **sorting**, **searching**, **insertion**, **merging** & **deletion** in different data structures
- Studied dynamic programming, **backtracking**, doubly linked list & spamming tree algorithms like **Krushkal**, **Prims**

### Machine Learning | Guided Projects | Coursera

[Apr'22 - Jul'22]

- Trained a **RESNET-18** model to perform multiclass image classifier in keras on COVID 19 chest X-Rays images
- Implemented **image augmentation** on a dataSet of **3000** images to solve problem of overfitting in trainig dataset

### Sentiment Analysis from tweets | Self Project

[Jun'22 - Jul'22]

- Utilised Twitter API for information retrieval and extracted JSON responses using the requests module
- Processed, cleaned, visualised data and built NLTK model. Applied regex, tf-idf, and cosine similarity for refinements
- Attained 96% accuracy by implementing RNN, stacked LSTM and CNN-LSTM models for effective data processing

## Digital Elevation Model using InSAR Course Project | Prof. Gulab Singh [Feb'23-Apr'23]

- Successfully utilized Sentinel-2 InSAR data to generate a DEM of Daishapu Glacier to understand Glacier Dynamics
- Processed and analysed interferograms, employing phase unwrapping techniques to accurately measure glacier deformations

## Natural Language Processing | Kaggle | Self-Project [Jun'22 - Jul'22]

Learned NLP concepts such as stemming, lemmatization, TF-IDF vectorisation using NLTK python library

- Performed EDA on the dataset using matplotlib and seaborn libraries followed by further text processing
- Developed a model architecture with 80% testing accuracy to detect real disaster tweets with Logistic Regression
- Used test-train split to compare the training accuracy among different Supervised Machine Learning models such as Logistic Regression, Decision Tree Classifier, Ridge Classifier and Random Forest Classifier

## Heat Transfer Analysis in Headgear Course Project | Prof. P. Sunthar [Sep'21 - Nov'21]

- Worked as a solver in a team of 8 to conceptualise a mechanism for reducing heat-trapping in Head-gears
- Deployed air vents for convection through internal flow and lead blanket shield to reduce the internal temperature
- Compared the market available headgear with the design developed by team using elemental heat transfer equations

## POSITIONS OF RESPONSIBILITY

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### Public Relations & Media Manager | AZeotropy-IIT Bombay (Jun'22 - Mar'23)

India's largest intercollegiate chemical engineering symposium | Footfall of 12K+ | 350+ colleges | Budget: INR 2Mn

<b>Leadership</b>	<ul style="list-style-type: none"><li>Part of a 13 membered team responsible for conceptualising and executing 30+ events and competitions</li><li>Directed 200+ campus ambassadors across 100+ colleges, increasing ground publicity by 80%</li><li>Managed AZeoPress &amp; BiWeekly Buzz series connecting 12K+ participants; 20% y-o-y increase</li></ul>
<b>Milestones</b>	<ul style="list-style-type: none"><li>Collaborated with AmarUjala as Newspaper partner and 7+ magazine partner for brand visibility</li><li>Negotiated deal with ticketing partner to reduce overhead by 6 times &amp; achieved 50% rise in ticket sales</li><li>Conceptualised S.I.M, fostering interaction and insights by linking 6 industries to 200+ students</li></ul>
<b>Impact</b>	<ul style="list-style-type: none"><li>24% y-o-y rise in social media engagement • Media coverage: 75% rise, 10Mn+ reach</li><li>Instagram viewership rise - 2.46x (Impressions) • Y-o-Y rise: registrations - 60%, followers - 52%</li></ul>

### Department Academic Mentor | Student Mentorship Program IIT Bombay [May '22 - Present]

Senior ARP mentor facilitating and supporting junior students, bridging faculty-student communication.

- Selected as a part of 40 membered team based on extensive peer reviews, SOP's and a rigorous interview process
- Mentoring 6+2 sophomores in academics and co-curriculars, helping them with their transition and holistic development
- Headed a team of 6 mentors revamping DAMP Blog, adding 8+ sections & updating 100+ course reviews | 20k+ views

### Mess Secretary | Hostel 2, IIT Bombay [Jan'22 - May'22]

Part of a 35 membered student council responsible for efficient working of the hostel catering to 500+ residents

- Supervised the working of hostel mess and canteen, managing a total bill of over INR 10Mn+ per semester
- Orchestrated zero wastage campaign, reducing daily food waste by 48% through strategic coordination efforts
- Purchased kitchen equipment worth INR 0.5Mn+ post Covid by evaluating different vendors on different parameters

## TECHNICAL PROFICIENCY

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### Programming Languages

C++ | JavaScript | Python | MATLAB | React | NodeJs | LATEX

### ML/DL Frameworks

TensorFlow | Keras | Pytorch | Sk-learn | NLTK

### Data Visualisation Tools

Matplotlib | Tableau | Seaborn | Pandas | Numpy | Git | OpenCv | SQL

## EXTRACURRICULARS

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<b>Technical</b>	<ul style="list-style-type: none"><li>Completed Deep Learning Specialization offered by DeepLearning.AI on Coursera with avg 97%</li><li>DeepLearning.AI TensorFlow Developer Professional Specialization by Laurence Moroney</li><li>Achieved top 2 position in ERC's obstacle maneuvering bot competition with 75+ participating teams.</li></ul>
<b>Culturals</b>	<ul style="list-style-type: none"><li>Participated in a team of 6 members in Freshiezza group dance competition conducted by InSync</li><li>Participated in a team of 8 members in Sophie dance league conducted by InSync, IIT Bombay</li><li>Participated in 2 month long Bollywood Dancing workshop organised by InSync dance club</li></ul>
<b>Social</b>	<ul style="list-style-type: none"><li>Participated in Powai Innovation run'22 aimed to promote zero waste plastic and sustainability</li><li>Devoted 80+ hours of volunteering work under National Service Scheme to promote sustainability</li><li>Successfully trekked KedarKantha peak, 12,500 feet tall under -10°C Celsius temperature</li></ul>