



Jeewan Chandra Joshi
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Indian Institute of Technology Bombay

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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

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

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

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

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

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

Programming Languages	C++ JavaScript Python MATLAB React NodeJs L ^A T _E X
ML/DL Frameworks	TensorFlow Keras Pytorch Sk-learn NLTK
Data Visualisation Tools	Matplotlib Tableau Seaborn Pandas Numpy Git OpenCv SQL

EXTRACURRICULARS

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