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Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2024	

KEY PROJECTS

Article Snapshot Tool | Web & Coding Club | IIT Bombay (Jul'23 - Aug'23)
2 Months of Intensive Exploration and Development in the Natural Language Processing Domain using PyTorch

Approach	<ul style="list-style-type: none"> ◊ Customized the model through transfer learning on a dataset of news articles and corresponding summaries ◊ Adapted pre-trained T5 LLM model by fine-tuning to learn news context, improving briefing informativeness
Impact	<ul style="list-style-type: none"> ◊ Elevated the model's synthesis accuracy, resulting in generation of less than 100 words of news summaries ◊ Provided an interactive web interface using Gradio, offering real-time news summaries for user consumption

Supply Chain Optimization | Academic Project | Guide: Prof. M. Kulkarni (Jan'23 - Apr'23)
Led a Team of 4 in a Research-Driven Project on 'Enhancing Barbershop Profits Through Optimization Strategies'

Approach	<ul style="list-style-type: none"> ◊ Devised lucrative plans for barbershop using meta-heuristics: Genetic Algorithm & Simulated Annealing ◊ Optimized discounts and membership fees balance precisely, resulting in a remarkable 14% surge in supply
Impact	<ul style="list-style-type: none"> ◊ Achieved a remarkable 18% increase in net profit using the Genetic Algorithm, surpassing alternative methods ◊ Revised norms, found an optimal balance of discounts and fees, improving earnings beyond assumptions

Currency Authenticity Detection | Self Project (May'23 - Jun'23)
Engaged in an Immersive Study, Enhancing & Fine-Tuning Classification Techniques With Focus on **Fraud Detection**

- Orchestrated a banknote authenticity classification system using ML models like **Neural Networks** and **Random Forest**
- Formulated **confusion matrix**, yielding an **F1 score of 0.96** for Neural Networks and **0.95** for Random Forest model

Trading Research | FinSearch | Finance Club, IIT Bombay (Jul'22 - Aug'22)

- Spearheaded a Team of 4 in a Financial Research Project on '**Option Pricing Models and their Accuracy**'
- Explored options and their pricing models, option **Greeks**, and tracked options price movement of the **Nifty 50** index
 - Developed pricing model via **Black-Scholes & Monte-Carlo Simulation**, achieving **98%** accuracy on NSE backtesting

COURSES & CERTIFICATIONS

Machine Learning Specialization | Stanford University | Coursera (Apr'23 - Jul'23)

- Embarked on an Enriching 3-Course Journey: Mastering Machine Learning Techniques and Real-World Applications
- Acquired versatile skills in **supervised** and **unsupervised learning**, spanning linear regression to reinforcement learning
 - Attained profound mastery in **regression**, neural networks, **ensemble** methods, clustering, and anomaly detection

NLP & LLMs | Web & Coding Club | IIT Bombay (Jul'23 - Aug'23)

- Delved Deep into Natural Language Processing (NLP) Realms, Uncovering Insights Over 2 Months of Immersive Study
- Mastered proficiency in NLP Techniques, including text data preprocessing, **word embeddings**, and **sentiment analysis**
 - Gained knowledge about **transformer architecture**, attention mechanisms, and fine-tuning Large Language Models

POSITIONS OF RESPONSIBILITY

Mentor | EnB Buzz | Entrepreneurship Cell, IIT Bombay (Nov'22 - Dec'22)

- Guided and inspired **6** enthusiastic students in a vibrant competition on startup ideas and Business Model Development
- Equipped them with skills to craft and execute a **Business Model Canvas**, enabling effective business operations

Events Coordinator | 25th Edition | Techfest, IIT Bombay (Jul'21 - Apr'22)

- Asia's Largest Science-Tech Festival with a Budget of **INR 33 million+** and a Footfall of **0.175 million+** Individuals
- Supervised and publicized the "**VISION SAFETY**" competition, targeting participants from a wide span of Institutes
 - Managed **200+** College Ambassadors from **50+** universities across India to conduct various competitions & workshops

SKILLS & EXTRACURRICULAR ACTIVITIES

Technical	Python , Jupyter Lab, SQL, HTML OS & Software: Linux, Windows, MATLAB, L ^A T _E X, Microsoft Office
Sports	<ul style="list-style-type: none"> • 3rd ranker of Hostel 3 Cricket League Led a team of 15+ players in the championship of 10 teams ['22] • Completed a year-long rigorous training program of Dramatics under National Sports Organisation ['21] • Participated in hostel and institute sports events, including cricket, athletics, and diverse activities ['23]
Others	<ul style="list-style-type: none"> • Engaged in Virtual Stock Market workshops and simulation competition conducted by E-Cell, IITB ['21] • Excelled Foundational Finance course hosted by Finance club, IIT Bombay through learner space ['21] • Resolved 100+ Mechanical Engineering problems as a Chegg Expert, assisting students worldwide ['21]