Krishna Gahlod
Chemical Engineering **B.Tech.**
Indian Institute of Technology Bombay

Examination	University	Institute	Year	
Graduation	IIT Bombay	IIT Bombay	2027	
Intermediate	CBSE	DPC Role Model Excellence School	2023	94.20%
Matriculation	CBSE	DPC Role Model Excellence School	2021	77.80%

Pursuing a Minor degree in **Entrepreneurship** from Desai Sethi School of Entrepreneurship (DSSE), IIT Bombay

PROFESSIONAL EXPERIENCE

Accenture Strategy & Consulting | Management Consulting Delivery Associate *(May'26 - Jul '26)*

Developed an internal GenAI PoV establishing a framework for reliable, secure conversational AI agents on Google's CXAS

Execution	• Orchestrated a flat-hierarchy telecom router having **10** specialist agents, reducing hop latency to **0.4**s • Mitigated operational risks by resolving **2** critical vulnerabilities using **18**-attempt security assessment • Optimized system reliability across **16** evaluation scenarios, boosting clean-pass rate from **31%** to **63%**
Impact	• Formulated a repeatable **CX** agent framework with **8** declarations & **5** practices to boost reliability • Synthesized a **37-page AI** strategy playbook, delivering key insights & findings to senior leadership

EdMe | UI/UX Intern *(Nov'25 - Jan'26)*

*Contributed to EdMe's **AI**-based learning app for competitive exams through UI & UX research, design and development*

- Engineered EdMe's app using **Flutter** and website using **React**, serving **2,000+** users across **15+** key workflows
- Orchestrated UX design of **12**-screen flows and AI-enabled features, optimizing user journeys across platform by **20%**
- Defined product roadmap to scale platform coverage from **1** to **3** exam categories: UPSC, JEE & NEET markets

Hinduja Group | Sustainability Consulting Intern *(May'25 - Jul'25)*

*Received **Letter of Recommendation** from the **CSO** of the **$40+** Billion Hinduja Group for exemplary performance*

Execution	• Benchmarked **8** conglomerates across **10+** sustainability KPIs; evaluated their ESG risks & readiness • Assessed **15+** low-carbon technologies on cost, impact, and feasibility; shortlisted **top 8** for adoption
Impact	• Designed and presented the Net Zero roadmap reviewed by **CXOs**, guiding internal policy alignment • Reviewed ESG maturity across **12** group firms to identify **6 gaps** in transition strategy and governance

KEY PROJECTS

Internprep AI | Self Project *(Jul'26 - Present)*

*Built **full-stack AI-powered** placement & internship preparation platform with **5+** workflows serving **100+** active users*

- Engineered a resume parser using Gemini and pgvector, enabling vector similarity search against **5,000+** benchmarks
- Orchestrated **FastAPI** backend on Render with **8+** endpoints, implementing background triggers to reduce latency
- Designed a multi-key API failover system of LLMs for a **4**-phase interview flow, securing high-availability architecture
- Revamped platform workflows using Google's Antigravity, integrating **PostHog** and **Sentry** to minimize error rates
- Developed **CI/CD** pipelines on Vercel & Render, maintaining **99%** uptime during high-volume LLM inference bursts

Opportunity OS | Self Project *(Mar'26 - May'26)*

*Architected an **AI-powered** opportunity intelligence platform aggregating **20+** sources scaling to **10,000+** opportunities*

- Engineered a Dockerized **n8n** pipeline with **10** workflows to ingest and parse raw HTML into Zod-validated JSON
- Built a multi-dimensional recommendation framework using behavioral feedback loops to boost user matches by **15%**
- Orchestrated **dual-pass AI** pipeline with **Gemini-Llama** fallback across **10** workflows for resilient data ingestion
- Deployed a multi-channel notification system via **Vercel Cron**, **Resend**, and **Telegram API** for automated digests
- Optimized cloud infrastructure costs via **GitHub Actions** and scheduled execution to minimize **API expenses**

StockScout | Self Project *(Jul'26 - Present)*

*Architected a **AI-assisted** investment platform managing **500+** NIFTY stocks with **10+** years of historical market data*

- Engineered an **NLP-to-Rules** pipeline using **Ollama** and **Cerebras** API to parse complex investment requirements
- Formulated a portfolio-aware stock evaluation system integrating 5 optimization methods to prevent concentration
- Developed a vectorized backtesting engine using vectorbt to evaluate **10+** investment strategies with transaction costs
- Implemented robust data isolation & security using **Supabase RLS** policies, ensuring strict separation of portfolios
- Optimized financial data ingestion using **APScheduler** caching, minimizing external API calls for **Nifty 500** stocks

Plank-Pro | Self Project *(May'26 - Jul'26)*

*Developed a **real-time AI** plank pose evaluation platform for sports a startup by making it **serverless** and **zero-cost***

- Maximized browser-based performance by leveraging **Vercel Edge** and **MoveNet** for **30+** FPS inference rates
- Championed system resilience by validating **20+** edge cases and implementing strict geometric **anti-cheat** checks
- Optimized AI inference by integrating a **One Euro Filter** to reduce landmark jitter by **90%** & ensure full stability
- Orchestrated a **5**-second calibration flow using geometric constraints to ensure resilience in different environments
- Designed a state-machine scoring system to manage user progress across **4** distinct fitness form states & leaderboard

Swiggy Business Model Analysis | Entrepreneurship Course Project | Prof. Rajesh Gopinathan *(Feb'25 - Apr'25)*

- Collaborated in a 6-member team to evaluate Swiggy's business model, competitive positioning & leadership structure
- Analyzed market dynamics & long-term sustainability using Porter's 5 Forces and SWOT, identifying **7** key insights
- Reviewed **4+** annual reports & investor presentations to analyze financial performance, risk factors & growth strategy

Impact of Interest Rate Hikes on Financial Markets | Research Project | Finance Club *(May'25 - Jul'25)*

- Quantified market reactions of **BSE Sensex** and **Nifty 50** to **RBI** rate hike signals, observing **2%** average price dip
- Studied **10+** RBI rate hikes over **25** years to assess their influence on inflation, **GDP** growth, and exchange rates
- Built an **econometric** framework to quantify correlations between rate hikes and asset class performance over time

Bio-fuels Production from Algae | Entrepreneurship Course Project | Prof. Anu Narasimhan *(Aug'24 - Nov'24)*

- Led an **8**-member team to conceptualize a startup leveraging algae for **biofuel** production to cut fossil fuel emissions
- Structured algae biofuel venture plan for **B2B** segment; projected INR **20M+** revenue using cost & demand estimates
- Validated problem-solution fit through **20+** interviews with potential users and industry stakeholders in clean energy

Stock Market Analysis | Summer of Science | Maths and Physics Club, IIT Bombay *(May'24 - Jul'24)*

- Investigated stock market's global impact, identifying **6** factors influencing security exchange, liquidity & stability
- Utilized analytical tools to evaluate performance of **50+** stocks, assessing risk & return metrics across various sectors
- Applied **10+** derivatives concepts across market scenarios to evaluate risk mitigation & speculative trading strategies

Stock Price Prediction using LSTM | WiDS Project | Analytics Club, IIT Bombay *(Dec'24 - Jan'25)*

- Benchmarked LSTM against traditional models like Linear Regression, showing **40%** superior prediction performance
- Developed a model for multi-day price forecasting, implementing time-step structuring for **95%** temporal accuracy
- Refined historical stock data using rolling averages for **15%** improved trend identification and noise reduction

Self-Watering Solution for Potted Plants | Course Project | Prof. Nishant Sharma *(Jan'25 - Apr'25)*

- Applied end-to-end Design Thinking methodology to address user challenges in plant maintenance for long absences
- Leveraged SCAMPER framework to conceptualize a portable self-watering system, reducing maintenance by **50%**
- Engineered **Arduino**-based prototype using soil moisture sensor to automate irrigation, improving user's experience

POSITIONS OF RESPONSIBILITIES

Institute System Administrator | IIT Bombay *(Jul'26 - Present)*

Serving as a technical bridge between CC and students enabling institute-wide network, server & digital infrastructure

- Managing network infrastructure operations across **21** hostels, coordinating with Computer Centre for connectivity
- Developed an integrated Gymkhana platform, centralizing resources & connecting **13k+** students to support portals
- Streamlined hosting and deployment operations for **10+** multi-tier councils, accelerating administrative workflows

Manager | Sustainability Cell | Web & Design *(May'25 - Apr'26)*

Advanced institute-wide sustainability as part of a 23-member team through technical, policy & behavioural initiatives

- Built a **RAG**-enabled co-pilot & carbon-footprint calculator with **100+** parameters in website, reaching **800+** users
- Digitized waste data reporting of **21** hostels, accelerating data-driven drafting of IITB's annual sustainability report

Manager | Yogastha | IIT Bombay *(Apr '25 - Apr'26)*

Co-led a 20-member team responsible for advancing physical and mental wellness across the IITB campus community

- Executed International Day of Yoga with **Ministry of Ayush**, maximizing engagement with **300+** active attendees
- Coordinated **15+** events & **10+** competitions, driving a **20%** expansion in club outreach and impacting **500+** students

ISMP/DAMP Mentor | Student Mentorship Program *(May'25 - Present)*

Serving as ISMP and DAMP mentor, guiding 12 freshmen & 6 sophomores through their academic & campus journey

- Earned Special Recognition from **Dean AP**, placing among **3/45** mentors for exemplary contribution as DAMP
- Leading DAMP **Events subgroup**, organizing tutorials, reviews & academic support for **200+** students of chemical

TECHNICAL SKILLS

- **Programming Languages**: Python, C++, HTML, CSS, Javascript, ReactJs, LaTeX, Flutter, SQL, MATLAB
- **Development & Infrastructure**: Next.js, FastAPI, Flutter, Tailwind CSS, PostgreSQL, Supabase, Vercel, Render
- **Softwares**: Claude code, Tableau, Power BI, Adobe Creative Cloud, Figma, Blender, Fusion 360, Docker, Bloomberg

EXTRA-CURRICULAR ACTIVITIES

Sports	• Selected for **Inter-IIT** Athletics camp team, training to represent at premier inter-college sports meet • Represented IIT Bombay in Athletics at **Udghosh**, IIT Kanpur's flagship sports fest with **800+** athletes • Competed in **Aavhan** as a member of the Institute **Kho-Kho** team, exhibiting strong teamwork skills • Won **Bronze** in Weightlifting GC, **Silver** in Triathlon GC & secured **Top-10** rank twice in Crossy GC
Social	• Serving as **IR Buddy**, supporting a **Norwegian** exchange student in adapting to IITB environment • Participated in multiple **Eco-drives** by planting **1,000** saplings and removing **200+** kgs of beach waste • Volunteered in **WiSE** initiative, engaging **160+** girls from rural India & encouraging careers in STEM • Provided mentoring and guidance to **40+** JEE aspirants on platforms like **Exprto** and **Mentorprep**
Misc.	• Awarded **Hostel's Sophomore of the Year** given to **1/200+** residents for performance in **5+** GCs • Led **2** projects at Vision, Design Club's flagship, engaging **1,000+** attendees through design showcases • Guided **18** students in Stock Market Analysis project, by creating structured weekly content & quizzes • Managing a **INR 3L+** personal portfolio, generating **19% XIRR** through research-driven allocation