



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2027	M.TECH Dual Degree 5Y	IIT Kharagpur	7.95 / 10
2022	AISSCE (CBSE XII)	D.A.V. Public School, Kota	95.6%
2020	AISSCE (CBSE X)	D.A.V. Public School, Kota	96.4%

PROJECTS

Prompt2Anim | AI-Powered Animation Generation System | Self Project May'25 - Jun'25

Built ML-powered system converting prompts to Manim animations using GPT-4, RAG, FastAPI, React, S3-compatible storage, Docker

- Developed modular **TypeScript** frontend, **FastAPI** backend, reducing animation creation time by **90%** via prompt-to-code automation
- Implemented **RAG** using **FAISS** and **LangChain**, improving **GPT-4** Manim generation accuracy by **42%** through context injection
- Secured runtime using Python **AST parsing** and **Docker** containers to block arbitrary code execution and sandbox script runs
- Built scalable infra with **S3-compatible storage** and **job queuing**, enabling parallel animations and boosting system throughput by **65%**

HR - Employee Sentiment Chatbot | Deloitte Challenge | Open-Soft 25, IIT KGP Mar'25 - Apr'25

Built backend & database for a conversational AI system that analyzes employee well-being and flags HR risks using NLP-driven insights

- Developed **FastAPI** backend to process **9** employee data streams, integrated **DistilBERT** classifier (**86%** accuracy) for sentiment analysis
- Integrated **MiniLM + FAISS** for semantic retrieval, with GPT-4 contradiction detection and real-time voice input via **Deepgram APIs**
- Automated report generation (**OpenAI + AWS S3**), cutting manual HR analysis time by **60%** and improving documentation workflows

Smart Movie Streaming Platform | Self Project Feb'25 - Mar'25

A full-stack movie streaming platform with intelligent multimodal search, advanced filtering, and secure subscription-based video playback

- Built a **MERN** platform with advanced search filters (language, genre, title, plot, cast) using **MongoDB fuzzy and semantic search**
- Integrated **MiniLM-L6-v2** for contextual movie search and **OpenAI Vision API** to enable image-based movie recommendations
- Engineered a responsive video player (**Video.js**) and **multi-tier subscriptions** using **Razorpay payments** and **JWT** for session handling

INTERNSHIPS

Skill Master Games | Backend & Analytics Intern | Remote, Bengaluru May'25 –Jul'25

Assisted in building backend analytics & tournament logic for Android-based real-money games using FastAPI, MongoDB, & internal APIs

- Assisted in implementing **FastAPI** endpoints for score submission, match status, and **logging player events** like retries and rage quits
- Reviewed FastAPI tournament code, added structured logging with logging module, and wrote **Pytest cases** for key match endpoints
- Built **MongoDB queries** to analyze **DAU**, match counts, and payout trends; contributed to internal dashboard for tracking player activity

University of Cambridge | Research Associate | UK Nov'24 - Feb'25

Analyzed and engineered data pipelines for India's SME Landscape using PLFS, ASUSE & Census Data Guide: Prof. Jaideep Prabhu

- Built modular **Pandas/NumPy** pipelines to parse **1M+** PLFS/ASUSE records across **6** years and **20+** variables for labor segmentation
- Applied **post-stratification** weighting and modeled rural-urban trends, hiring thresholds using **Statsmodels, Seaborn, and NIC codes**
- Engineered formalization metrics (contracts, leave, benefits) & visualized time-series indicators using **Matplotlib** and **Jupyter notebooks**

AWARDS AND ACHIEVEMENTS

- Ranked in Top **10% (1085/11,000+)** in **Codeforces** Round 1024, showcasing strong algorithmic & problem-solving capabilities
- Secured a Top **0.2% AIR** in JEE Mains Physics (2022) out of **12 Lakh+** candidates; qualified JEE Advanced with **96+ percentile (Top 4%)**
- Achieved **1st State** and **7th nationally** in International olympiad of Science, recognized with cash awards and academic scholarships

SKILLS AND EXPERTISE

Languages & Tools: C | C++ | *Python | *TypeScript | JavaScript | HTML | CSS | SQL | Git | *Docker | VS Code | Jupyter | Vercel
Libraries & Frameworks: FastAPI | React.js | Node.js | Express | Redux | *Redis | *LangChain | FAISS | Zod | Bcrypt | MongoDB
Concepts & Systems: REST APIs | JWT Auth | Prompt Engineering | *RAG Pipeline | S3 Storage | Webhooks | Pytest *(Familiar)

COURSEWORK INFORMATION

Programming and Data Structures* | Introduction to Machine Learning (NPTEL) | Probability and Statistics | Numerical & Complex Analysis |
Advanced Calculus | Transform Calculus | Linear Algebra | Computer Applications for Materials* | Economics *(Lab + Theory)

POSITIONS OF RESPONSIBILITY

Associate Manager | Public Relations, Competitions & Associations | Entrepreneurship Cell Dec'22 - Jul'24

- Led **70+** team to publicize GES 2024 across **250+** colleges **PAN India**, driving **3000+** participants via strategic multi-channel outreach
- Executed India's largest B-Model competition, Empresario'24, engaging **3500+** startups with **1 Cr+** prize pool and multi-phase evaluation
- Facilitated **60+ VC** and ecosystem partnerships, offering **\$2.5M+** in startup services & **funding support** to shortlisted ventures
- Scaled **"Connecting the Dots"** initiative, mentoring **20+ E-Cells** to foster collaboration, resource sharing, and ecosystem-wide growth

EXTRA CURRICULAR ACTIVITIES

- Entrepreneurship:** Founded **FarmShuddh** to uplift **10+** dairy families by branding rural ghee into high-value urban-facing products
- Football:** Captained school team for **3** years; led district championship **winners in 2020** and secured **2nd** place in DAV Zonal Tournament
- Volunteering:** Led **OM Foundation** drives in Jaipur, distributing essentials to **300+** families and initiating education circles to underserved
- Socult:** Best Performer (**200+** participants) in Hip-Hop at Rajasthan Patrika Camp; contributed to Hall Illumination team at IIT Kharagpur