



## EDUCATION

Year	Degree	Institute	CGPA/Grade
2025	B.TECH	IIT Kharagpur	8.41 / 10
2020	12th Board Exam	Gyan Bharti Global School	91.2%
2018	10th Board Exam	Nazareth Academy	92%

## INTERNSHIPS

<b>Innovaccer   Data Science Intern</b> • Enhanced the natural language semantics of "Sara", a med-AI model, as part of the <b>NLP R&amp;D</b> team, with better result accuracy above <b>85%</b> • Utilized open-source models like <b>GTR-T5 base</b> , <b>Flan-T5 XL</b> , others, fine-tuned models on custom dataset, evaluating over distinct metrics • Leveraged Langchain, for <b>Chain of Thought</b> , <b>Few-shot prompting</b> , with a <b>RAG</b> pipeline with <b>Milvus</b> , multi vector embedding ( <b>COLBERT</b> ) • Developed a multi-chain model for diverse use case segmentation using asynchronous programming with <b>GPT-4o</b> , and other SLM models	<b>June'24-Aug'24</b>
<b>Affine   Machine Learning Intern</b> • Closely collaborating with the <b>Data Science</b> team to drive cutting-edge innovations and providing robust strategic solutions utilizing LLMs • Successfully implemented instruct tuning of the <b>Meta-Llama-3-8B</b> model to handle complex data queries, enhance contextual-awareness • Engineered a <b>16 attention</b> head, <b>500M parameters</b> model, using mixed-precision for a <b>35%</b> reduction in memory, <b>20%</b> faster convergence • Implemented precision <b>Instruct fine-tuning</b> to handle complex queries and improve context-awareness, a resource-efficient optimization	<b>April'24-June'24</b>
<b>Cambridge Judge Business School   Research Apprenticeship</b> • Developed an <b>AI-driven</b> Startup Portal using <b>Groq API</b> , delivering personalized strategies, <b>business ideas</b> , and enhanced user engagement • Engineered <b>NLP</b> techniques for extracting key insights from inputs, generating <b>SWOT</b> analyses, boosting decision-making efficiency by <b>40%</b> • Integrated prompt engineering, enabling context-aware output, addressing marketing strategies, <b>financial planning</b> , resource optimization • Built scalable <b>RESTful</b> endpoints with robust <b>data parsing</b> and <b>CORS</b> enabling seamless and real-time interactions across multiple platforms	<b>May'23-Sep'23</b>

## PROJECTS

<b>Medium Article Search and Summarizing Agent</b> • Developed a Medium search and summarization tool, enabling real-time retrieval of articles from internet with concise summary of article • Used <b>langchain</b> , integrated <b>Anthropic</b> and <b>Hugging Face</b> models like <b>Flan T5 X Large</b> , other models for filtering and generating responses • Designed a multi-model architecture that reduced data processing latency by <b>40%</b> and delivered results in under 5 seconds for each query • Built an interactive UI with <b>Streamlit</b> , deployed over <b>Render</b> , with minimal latency, for a seamless user experience, with efficient caching	<b>Jan'24-Feb'24</b>
<b>Music Popularity Estimation</b> • Developed a Music Popularity Prediction model using regression with an <b>MSE</b> of 3.2 and an <b>R-squared</b> score of <b>0.85</b> , over audio/metadata • Analyzed a dataset of <b>227</b> , reducing dimensionality by <b>35%</b> retaining over <b>90%</b> of predictive accuracy over features like energy, loudness • Trained <b>Random Forest</b> and <b>Gradient Boosting</b> regression models, with hyperparameter tuning for boosting accuracy by <b>15%</b> over others • Playlist optimization through feature analysis, revealing that higher <b>energy/danceability</b> increase popularity likelihood by more than <b>25%</b>	<b>Jan'24-Feb'24</b>

## COMPETITION/CONFERENCE

<b>Amex Decision Science Track   Global Pre-Final Round</b> • Led a team of 4 to pre-final round of ML challenge, ranked in top 0.5% out of 6000+ teams, driving a <b>30%</b> faster decision making process • Achieved <b>92%</b> accuracy in T20 cricket match score outcomes using <b>XGBoost</b> , <b>LightGBM</b> , <b>CatBoost</b> , analysing over <b>100,000</b> data records • Reduced prediction error by 15% using grid search, 10-fold cross-validation, outperforming traditional methods by 20% in T20 predictions	<b>June'24-July'24</b>
<b>Impetus 5.0 Case Study   National Semi Final Round</b> • Formulated a compelling business model along with targeted marketing plan for <b>FinBlend's</b> new integrated finance platform <b>Finvest Pro</b> • Strategized personalized offerings, data driven acquisition and partnerships to unlock FinInvest Pro's potential across consumer segments • Developed a go-to-market and sustainability strategy to enable FinBlend's expansion into lending, investments, and insurance verticals	<b>Nov'23-Dec'23</b>

## SKILLS AND EXPERTISE

**Coursework Information:** Probability and Statistics | Linear Algebra | Machine Learning Foundations | Programming and Data Structures  
**Softwares / Languages:** Python | SQL | AWS | Azure | Flask | Django | Athena | Streamlit | Snowflake | Google Colab | Github | FastAPI  
**Libraries / Frameworks:** TensorFlow | Pytorch | Spacy | Git | NLTK | Pandas | CherryPy | GPT | BERT | Pyterrier | LangChain | Transformers  
**Certifications:** Data Analytics Foundation | Career Essentials on Generative AI | Advanced Learning Algorithms | Pytorch for Deep learning

## POSITIONS OF RESPONSIBILITY

<b>Spring Fest   Publicity and Media Outreach Head</b> • Led a team of <b>31+55</b> to organize nationwide events in <b>16</b> locations, engaging <b>850+</b> colleges, leading to <b>10,000</b> participants from pan India • Increased remote participation from <b>Delhi, Maharashtra, 12</b> more cities by <b>150 percent</b> , leading to a total of above <b>15,000 participants</b> • Enhanced Spring Fest's online presence and engagement by <b>60%</b> , through big content creators delivering high-quality content strategies • Led 'Prabal: Fighting Stronger on cell at a time' cancer awareness initiative, with <b>Yuva India, DKMS-BMST</b> Foundation for impactful results	<b>June'23-Jan'24</b>
<b>Spring Fest   Core Team Member</b> • Triumphant sponsorship drive in the <b>Uttar Pradesh</b> , collecting over <b>INR 1 Lakh</b> through alumni contributions with a remarkable <b>200% YOY</b> • Led a team of <b>4</b> to secure <b>26 media</b> partnerships with major outlets like Punjab Kesari, Amar Ujala, and Lutoopia Magazine for Spring Fest • Executed 4-day star shows with co-members, featuring artists like King, Nucleya, and Sunidhi Chauhan, attracting a footfall of over 50,000	<b>Aug'22-Jan'23</b>

## EXTRA CURRICULAR ACTIVITIES

- District-level **Badminton Gold** during high school from Nazareth Academy School, amongst more than 400 contestants of over 38 districts
- Spearheaded **Gold** winning team in **Intra Hall Tug of War competition** at Pandit Madan Mohan Malaviya Hall of Residence, IIT Kharagpur
- **1st runner-up** at **ILLUMINATION** a major inter-hall competition/event at IIT Kharagpur, Pandit Madan Mohan Malaviya Hall of Residence