



TEJAS KAMBLE | 21EC10080

Indian Institute of Technology Kharagpur

Electronics and Electrical Communication Engineering

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EDUCATION

Year	Degree/Exam	Institute	CGPA/Percentage
2025	B.Tech	Indian Institute of Technology Kharagpur	7.87
2021	Class XII, HSC	Ashok Vidyalaya and & Jr. College	91.67%
2019	Class X, CBSC	Kukadi Valley Public School	94.60%

INTERNSHIPS AND PROJECTS

- Statistical Model for Stock Price Prediction | Vinod Gupta School of Management** *Prof. Prabina Rajib*
- Developed and implemented statistical models, using ARIMA, GARCH, and ECM for stock price prediction and financial forecasting
 - Successfully attained an average forecasting precision of 68%, demonstrating a track record of accurate financial forecasting
 - Applied models to historical stock price data, enabling the optimization of portfolio management strategies and investment decision-making
 - Utilized Python for data analysis and model implementation, with a focus on time series analysis and quantitative forecasting
- Web Development Intern | India Meteorological Department, Pune** *Dr. Rajib Chatopadhyay*
- Developed a dynamic web application using Python, Dash, Flask, and Plotly to showcase 120 years of Indian district-wise rainfall data
 - Conducted trend analysis on 700+ districts, providing detailed insights into trends in rainfall patterns and extreme weather events
 - Implemented responsive design principles and integrated caching mechanisms to achieve a 22% increase in response speed
- Mitigation of RFI from Time Domain Data of GMRT | National Centre for Radio Astronomy** *Prof. Jayanta Roy*
- Led RFI mitigation efforts for GMRT time-domain data, enhancing survey accuracy and sensitivity of Pulsar signals
 - Conducted a comprehensive evaluation of GP-tool and IQRM, evaluating their functionality and runtime performance
 - Utilizing spectral statistics to detect outliers in GMRT data and enhance radio frequency interference (RFI) mitigation techniques.

- PDF Reader Using Generative AI**
- Developed an advanced PDF reader using Generative AI and Language Model, enabling text extraction, PDF handling, and content base Q&A
 - Implemented efficient text processing and search feature using Langchain and HuggingFaceInstructEmbeddings, enhancing information
 - Hosting the interactive application on Hugging Face, showcasing deployment skills and seamless user experience

- Loan Repayment Predictor and Risk Assessment Tool**
- Created a Python model for Loan repayment predictions using historical loan data.
 - Implemented a tool for assessing prospective customers, streamlining data-driven loan approval decisions based on the model's predictions.
 - Assessed model effectiveness, employing classification metrics to ensure a robust risk assessment system for future loan applicants

SKILLS AND EXPERTISE

- **Programming Languages:** C++ | C | Python | HTML | CSS
- **Operating System :** Linux(Ubuntu) | Windows
- **Software/Packages:** Microsoft Office | Microsoft Excel | Gedit | Jupyter Notebook
- **Frameworks and Libraries:** NumPy, Pandas, Matplotlib, yfinance , seaborn, GeoPandas, Dash

COURSEWORK INFORMATION

- | | | |
|---------------------------------------|-------------------------------|--------------------------------|
| ○ Programming & Data Structure | ○ Systems and Control | ○ Analog Electronics Circuits |
| ○ Probability and Statistics | ○ Electromagnetic Engineering | ○ Digital Electronics Circuits |
| ○ Linear Algebra & Optimisation Model | ○ Signals and Systems | ○ Network Theory |

COMPETITIONS

Silver Medal| Product Design | Inter-Hall General Championship 2023 | Low-Energy Vaccine Cold Storage Box

- Designed the structure of a vaccine container box for cold temperature maintenance and ideated a mechanism for active temperature control
- Implemented the concept of endothermic dissolution of ammonium nitrate in water, as a novel low-energy method for cooling vaccine
- Saved about 16% on operating energy and increased the transportation life by 140% by moving away from traditional high-energy refrigeration

Silver Medal | Ad Design | Inter-Hall General Championship 2023

- Developed a strategic marketing plan for a fitness app, including target market identification, persona creation, and channel selection
- Conducted impactful surveys to pinpoint ideal product messaging, theme, and advertising concept

POSITIONS OF RESPONSIBILITY

- Governor & Sponsorship Head | Public Policy & Governance Society** Apr'23 - present
- Founded the Public Policy and Governance Society and took the lead in designing and developing the society's website, using HTML and CSS
 - Conducted and hosted the largest talk show **SAMVAAD** in collaboration with the SAMVAD team, featuring over 400 participants
 - Organized talk shows featuring UPSC rankers and spearheaded a mentorship program, benefiting over 100 aspirants

- Junior Manager, Outgoing Global Talent | AIESEC in IIT Kharagpur** July'22 - Jan'23
- Executed and promoted student exchange programs and related activities as a front-office representative
 - Organized a captivating on-campus treasure hunt event, engaging 350+ enthusiastic students and generating an impressive INR 25,000

EXTRA CURRICULAR ACTIVITIES

- Secured 2nd position in General Championship-What's the Good Word 2023
- Engaged as an NSS volunteer in community development initiatives aimed at improving education, healthcare, and socio-economic conditions