PAMULAPATI DHANUSH | 22EC10051

ELECTRONICS & ELEC. COMM.ENGG. (B.Tech 4Y)

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2026	B.TECH	IIT Kharagpur	8.73 / 10
2022	CBSE 12	Narayana Junior College, Bangalore	96.80%
2020	CBSE 10	Narayana Olympiad School, Bangalore	94.20%

AWARDS AND ACHIEVEMENTS

- Achieved All India Rank **1027** in JEE Advanced, 2022 out **1,60,000+ candidates**, conducted by IIT Bombay
- Ranked **1063** in Joint Entrance Exam Mains, 2022 out of **1,300,000 candidates** appearing for the exam
- Secured **151st** Rank in Karnataka Common Entrance Test (KCET) 2022, out of **216,000 candidates** statewide
- Attained All India Rank **1088** in KVPY 2021, qualifying for admission to the **Indian Institue of Science**

PROJECTS

Online Whiteboard | Self-Project | IIT Kharagpur **[Mar' 24 - May' 24]**
Project Link:https://online-whiteboard-iota.vercel.app/
- Developed and deployed an interactive online whiteboard application using **React** and **RoughJS** on **Vercel**
- Engineered efficient state management with React's **Context API** and reducers, ensuring minimal latency
- Demonstrated proficiency in **asynchronous data** flows and event handling, enabling real-time data synchronization

Desktop Trade Tracker with TWS API | Self-Project | IIT Kharagpur **[May' 24 - Jun' 24]**
Link to Repo: https://github.com/P-Dhanush/DESKTOP-STOCK-WATCHER-TWS-API-/
- Implemented an **automated trading system** using **TWS API** with Python, enabling efficient trade monitoring
- Managed asynchronous processes using **multithreading** and callbacks for seamless client-server communication
- Integrated historical data retrieval and dynamic visualizations using **Pandas** and **Lightweight Charts**

Portable Temperature Adjusting Bottle | Course Project, DIY **[Nov' 22 - Feb' 23]**
- Engineered a liquid heating and cooling flask with 0.5-degree precision using **Arduino**, MOS, and Peltier technology
- Integrated an adapter to enable system power via standard 220V AC household electric supply for reliable use
- Utilized sensor input, and implemented a **PID control algorithm** for precise temperature regulation

COMPETITION/CONFERENCE

- Recognized as a **Specialist** on **Codeforces**, currently holding a rating of **1408** |Handle : **Dhanush-Pamulapati**

SKILLS AND EXPERTISE

Programming Languages : Python, C++, JavaScript | **Frameworks and Libraries** : React, Numpy, Pandas, Sklearn

POSITIONS OF RESPONSIBILITY

Consultant | 180 Degrees Consulting, IIT Kharagpur **[Dec' 22 - Nov' 23]**
- Liaised between the consulting team and client Falhari, coordinating efforts to ensure timely project completion
- Conducted a Comprehensive analysis of over **700 combinations** to optimize and revamp Falhari's delivery system
- Transformed local restaurant operations by analyzing **1000+ responses** within **80%** of the proposed budget

Unit Leader| National Social Service, IIT Kharagpur **[Feb' 23 - Apr' 24]**
- Directed a team of **54 members** in conducting a comprehensive health needs assessment for a village community
- Streamlined team - NSS Officer commnuication for seamless event execution and resource allocation

Associate | Quant Club, IIT Kharagpur **[May' 23 - Present]**
- Organised **Summer of Quant 2024**, a well-curated quant-finance course with a footfall of **4000**+ registrations
- Conducted and curated finance quiz **Enigma** in collaboration with **Kshitij** with a participation of **250+** students

COURSEWORK INFORMATION

Programming and Data Structures | Linear Algebra and Complex Analysis| Probability and Statistics | Advanced Calculus | Analog Circuits | Semiconductor Devices | Systems and Control | Signals and Systems

CERTIFICATIONS

Applied Machine Learning in Python **Supervised Machine Learning**
University of Michigan on Coursera | Grade: 85.87% DeepLearning.AI | Grade : 100%

EXTRA CURRICULAR ACTIVITIES

- Acted as a playwright for the General Championship Stage Play, achieving 4th position in 2023-24.
- Finished in the top 25 in the 10K Marathon conducted by the Technology Student's Gymkhana in Feb '24.