



Supriyo Bhattacharya

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B.Tech Electrical Engineering
Indian Institute Of Technology, Jammu

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year of Passing
B.Tech, Electrical Engineering	Indian Institute of Technology, Jammu	7.38 (Current)	July 2026 (expected)
12th Standard	Kendriya Vidyalaya AFS Chabua	94%	2021
10th Standard	Kendriya Vidyalaya AFS Chabua	88.4%	2019

SCHOLASTIC ACHIEVEMENTS

- Winner of [Panasonic Asia Scholarship Program](#) (2022).
- Secured **AIR 8934** in **JEE Advanced** (2022).
- Chanakya Research Fellowship** on agentic Tsetlin Machine for skin-cancer detection (2024).

PUBLICATIONS

- Elephant in the Room: Composite Vanilla Tsetlin Machine with Hybrid Feature Extraction**, ACDSA Conference, IEEE Xplore (2026).

WORK EXPERIENCE

- Panasonic India Innovation Centre** May 2025 – Aug 2025
Data Science Intern Bangalore
 - Engineered big data pipelines using **Apache Spark** for large-scale AC fault prediction.
 - Leveraged sensory IoT data to develop predictive maintenance workflows.
 - Designed a **hybrid ML model** achieving **97% accuracy** and **99% precision**, reducing downtime significantly.
- Ernst and Young** May 2024 – Jul. 2024
Data Analyst Intern New Delhi
 - Used Python and SQL to perform complex data analysis and generate actionable insights.
 - Analyzed India's trade data from MeITY to identify key trends and patterns.
 - Worked with senior analysts on diverse projects, applying EY methodologies to develop data-driven strategies.
- Craving Alpha LLP** May 2024 – Jun. 2024
Research Analyst Intern Kolkata
 - Assisted in developing and testing methods for equity selection and risk management.
 - Implemented tools for data processing, backtesting, and performance analysis using Python.

PROJECTS

- Fractal Geometry Integration in Tsetlin Machine for Pattern Recognition** Apr. 2024 – Present
IIT Jammu
 - Tech:** Python, C, Tsetlin Machine, Arduino Nano BLE 33
 - Enhanced Tsetlin Machine by aggregating class sums from multiple TMs for robust predictions.
 - Applied HOG and color thresholding (3x3, 4x4) for multi-perspective pattern recognition.
- QuantLab - Machine Learning-Based Algorithmic Trading Engine** Aug. 2024 – Present
Sole Developer & Project Lead [Github](#)
 - Tech:** Python, Django, FYERS API, Azure, TimeSeries Classification
 - Built Django-based platform for algorithmic trading with ML-powered price forecasting.
 - Integrated FYERS API for real-time market data and automated trading.
- EMG Sensor Integration in Below-Knee Prosthetics** Jan. 2024 – May. 2024
IIT Jammu [Github](#)
 - Tech:** Raspberry Pi, Flex Sensor, EMG Sensors, Stepper Motor
 - Designed EMG-based system to capture myographic signals for prosthetic control.
 - Integrated stepper motor and flex sensors for improved movement detection.
- WaveText - Messaging App** Sept. 2024
Sole Developer & Project Lead [Github](#)
 - Tech:** REST API, WebSocket, Bootstrap CSS
 - Developed Django + WebSocket messaging app with private/group chats and notifications.

KEY COURSES TAKEN

- DSA, Computer Networks, DBMS, Machine Learning, Computer Programming, Linear Algebra

TECHNICAL SKILLS

- **Programming:** Python (Pandas, NumPy, PySpark), C++, Bash Scripting
- **ML/AI:** Scikit-learn, TensorFlow, Deep Learning, Data Engineering (Spark), LangGraph
- **Backend & APIs:** Django, FastAPI, REST, WebSockets
- **Databases:** SQL, Neo4j
- **Systems:** Linux, Git, Azure
- **Finance:** Equity Research, Algo-Trading

POSITIONS OF RESPONSIBILITY

- **Student Representative,** Career & Development Services, IIT Jammu *Present*
- **Class Representative,** IIT Jammu *Oct 2022 - Mar 2023*

CERTIFICATIONS

- Machine Learning and Deep Learning Course by **Udemy**.
- Advanced Data Analytics Professional Certificate by **Google**.
- Cybersecurity Professional Certificate by **Google**.

ADDITIONAL INFORMATION

- **Hobbies:** *Badminton, Table Tennis, Investment and Finance*
 - **Languages:** *Bengali, Hindi, English*
 - **Extracurricular Activities:** *NSS volunteer — taught evening classes to village children in Jagti (2024)*
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