SUPRIYO BHATTACHARYA

AI/ML Developer | Software Engineer | Data Science | Python, SQL, Django

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EDUCATION

Course	Institute	Year of Passing	Result
B.Tech (Major: Electrical Engineering ,Minor: CSE))	Indian Institute of Technology, Jammu	Expected 2026	7.18 CGPA
12th Standard	Kendriya Vidyalaya AFS Chabua	2021	94%
10th Standard	Kendriya Vidyalaya AFS Chabua	2019	88.4%

SCHOLASTIC ACHIEVEMENTS

- Winner of Panasonic Asia Scholarship Program 2022
- Secured 8934 rank in JEE Advanced (2022)
- Selected for Chanakya Fellowship Program for research on "Agentic Tsetlin Machine for Skin Cancer Detection" (2024)

WORK EXPERIENCE

Ernst and Young - New Delhi (May 2024 - Jul 2024) ⭐
Data Analyst Intern
- 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 - Kolkata (May 2024 - Jun 2024) ⭐
Research Analyst Intern
- 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
- Developed and implemented fractal geometry concepts into Tsetlin Machine algorithm.
- Utilized fractal geometry principles for improved pattern recognition in Tsetlin Machine.

QuantLab - Machine Learning-Based Algorithmic Trading Engine (Aug 2024 - Present) ↗
Sole Developer & Project Lead
- Developed a web-based platform using Django for advanced algorithmic trading.
- Integrated machine learning models to enhance accuracy in price action prediction and trading decisions.
- Utilizes FYERS API for real-time data and trading insights.

EMG Sensor Integration in Below-Knee Prosthetics (Jan 2024 - May 2024) ↗
IIT Jammu
- Developed system using Raspberry Pi and EMG sensor to capture myographic signals from amputated leg.
- Used customized prosthetic to accommodate stepper motor for seamless integration.
- Utilized flex sensors to improve movement detection and control for an enhanced user experience.

WaveText - Messaging App (Sept 2024) ↗
Sole Developer & Project Lead
- Implemented WaveText, a real-time messaging platform using Django and WebSockets for efficient communication
- Designed and developed features like private chats, group chats, and notifications.

SKILLS

Computer Science	Data Structures and Algorithms, Operating Systems, Computer Networks, DBMS, OOPs
Programming Languages	Python, C++
AI/ML	Deep Learning, Machine Learning, Data Processing (Pandas and Numpy)
Cybersecurity	Network Security, Threat Analysis, Kali Linux, SQL

Web Development	HTML, CSS, JavaScript, Django, Git (Version Control)
Financial Skills	Fundamental Analysis, Technical Analysis

ADDITIONAL INFORMATION

Certifications

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

Position of Responsibility

- Class Representative (Oct 2022 - Mar 2023)
- Placement coordinator, Batch of 2026

Hobbies: Badminton, Table Tennis, Investment and Finances, Computer gaming

Languages: Bengali, Hindi, English

Extracurricular Activities: NSS Volunteer 2024