Sourodip Chatterjee
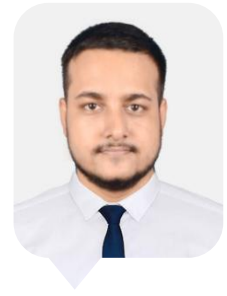
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Technical Skills

- Programming Languages: C | **C++** | **Python**
- **ML** Tools: TensorFlow | scikit-learn | pandas | spaCy | NLTK
- Databases: SQL | MySQL
- Operating Systems: Windows | Linux
- Cloud Platforms: AWS(EC2, S3, Lambda, CloudWatch)
- Tools & Frameworks: Git | **Tkinter**

Certifications

- Python Programming – GeeksforGeeks (2025)
- Blockchain & Cloud Computing – NPTEL (2023, 2022)
- AI Constraint Satisfaction – NPTEL (2022)
- Data Analytics – Coursera (2022)

Professional Summary

CSE (AI) graduate skilled in Python, C++, Machine Learning, and Cloud platforms (AWS). Experienced in real-time software, predictive AI systems, and full-stack Android apps. Eager to contribute to innovative engineering teams.

Education

Bachelor of Technology in Computer Science and Engineering - **AI** | CGPA: 8.27
Techno India University, Salt Lake, West Bengal | 2024

Internships

(AICTE)
AWS Cloud Virtual Internship (Intern | January - March 2024)
- Deployed 3+ applications using AWS services like EC2, S3, and Lambda.
- Optimized cloud infrastructure, reducing latency by 20%.
- Strengthened security & cost efficiency, applying AWS best practices.

Google Android Development (Intern | September - November 2023)
- Built a feature rich Android app with Firebase authentication, navigation, and real-time database integration.
- Debugged and improved app efficiency, reducing crash rate by 15%.
- Worked with Jetpack components & Material UI, following Google's best practices.

Academic & Independent Projects

Stock Price Prediction
- Built a machine learning model in Python (scikit-learn, pandas, NumPy) to forecast stock prices using Data Analysis.
- Achieved 85% accuracy on TCS stock dataset, optimizing feature selection for trend prediction.

Sentiment Analysis on Social Media
- Developed an NLP model in Python (NLTK, spaCy, TensorFlow) to classify tweets as positive, negative, or neutral.
- Improved accuracy by 12% using advanced text preprocessing and feature engineering.

Adaptive AI Rock-Paper-Scissors Game
- Built a modular Python CLI game with dynamic scoring, best-of-N logic, and real-time result logging.
- Engineered an AI opponent that adapts to player patterns using predictive move-frequency analysis.
- Designed for scalability with JSON configs, CSV logging, and a future-ready GUI via Tkinter.
- Actively maintained with ongoing feature additions and performance enhancements.

Soft Skills

- Time Management: Successfully managed multiple projects and internships while maintaining a CGPA of 8.27.
- Team Collaboration: Led a team of 5 in the Stock Price Prediction project, ensuring timely delivery and high accuracy.
- Adaptability: Quickly learned Firebase and AWS services during internships, delivering results ahead of schedule.