

Sagar Agarwal

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Professional Summary

Pre-final year Computer Science undergraduate with hands-on experience in full-stack development, blockchain, and mobile applications. Skilled in Python, Java, Flutter, Firebase, cybersecurity, and app development. Experienced in leadership, community initiatives, and public speaking.

Education

Birla Institute of Technology, Mesra (Off Campus - Jaipur), B.Tech in Computer Science 2023 – 2027

- GPA: 8.43/10

Skills Summary

Languages: Python, Java, C, Dart, HTML, CSS, JS, React js
Web/Tech: REST APIs, Firebase, Git, Flutter, Tkinter, GitHub
Libraries/Tools: MySQL, Twilio, Blockchain (Algorand), Smart Contracts
Concepts: OOP, Data Structures, Algorithms, Debugging, Cybersecurity
Soft Skills: Leadership, Time Management, Teamwork, Adaptability

Projects

Saviher –Founder Developer (Startup Project in Beta Testing) 2024 – Present

- Achieved 40% faster emergency response time using Firebase, Twilio, and GCP.
- Built a women's safety app with SOS alerts, geofencing, and volunteer support.
- Conducted beta testing with 50+ users; reduced emergency trigger time by 15%.
- **Tech Stack:** Flutter, Dart, Firebase GitHub

Solar-Chain — Peer-to-Peer Energy Trading Platform 2024 – Present

- Built a decentralised app for solar energy trading, reducing coal reliance by 50%.
- Secured \$250 as 3rd round finalist in an Algorand blockchain hackathon.
- Integrated smart contracts for transparent energy credit transactions (10+ users).
- **Tech Stack:** Python, Blockchain, Algorand Smart Contracts GitHub

Smart Product Pricing (ML Challenge 2025) Jan 2025 – Present

- Built an ML model to predict product prices using text, numeric, and image features.
- Developed a hybrid ensemble (Random Forest, Gradient Boosting, MLP) with feature engineering (TF-IDF, keyword indicators, numeric extraction) and model validation in scikit-learn.
- Achieved 54% SMAPE (Top 2000/7000+ teams); optimizing toward <40% SMAPE.
- **Tech Stack:** Python, Scikit-learn, NLP, ML, Data Analysis GitHub

Achievements

- Solved **500+ problems on LeetCode** using **Python, Java**, strong in **data structures**.
- Finalist, Algorand Blockchain Hackathon (top 3% entries).
- Top 10 finalist, Smart India Hackathon 2024 (college-level, 500+ participants).

Certifications

- **Ford EV Engineering Simulation (Forage, Aug 2024):** Developed ROS packages and battery performance analysis.
- **AIG Shields Up Cybersecurity Program (Forage, Jul 2024):** Created ethical hacking scripts for vulnerability detection.
- **Mastercard Cybersecurity Program (Forage, Jul 2024):** Researched CVEs and designed awareness campaigns.

Leadership & Campus Roles

Cyber Security Lead, Google Developers Group Oct 2023 – Present

- Led 5+ Web3 workshops with 500+ attendees.
- Increased event registration by 40% through targeted outreach.

Senior Coordinator, Technical Committee Oct 2023 – Present

- Organized 6 inter-college coding contests with 500+ participants.
- Mentored 20+ juniors, improving hackathon performance.