

Aamin Simmi Singh

Computer Science Engineer, Frontend Strategist, AI/ML Enthusiast
Lucknow, Uttar Pradesh

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EDUCATION

Babu Banarasi Das University
B.Tech in Computer Science and Engineering

Lucknow, UP
Aug 2023 – Present

Army Public School, Saugor
Class XII (CBSE Board)

Sagar, MP
2022

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C, C++
- **Web Technologies:** HTML, CSS, JavaScript, React
- **Data Science & ML:** Pandas, NumPy, Matplotlib, Seaborn, Folium, ARIMA, LSTM, Jupyter
- **Tools & Platforms:** Git, GitHub, MySQL, IoT (Arduino), Windows CLI
- **Core Concepts:** Data Structures (Trees, Graphs), Algorithms, System Design

PROJECTS

VisionMeter Web Application
Eye testing and color vision analysis tool 2024

- Developed an interactive React-based diagnostic tool featuring AI-powered voice recognition for hands-free operation.
- Integrated automated PDF report generation to provide users with instant, downloadable visual health summaries.
- Live Link: visionmeter.netlify.app

KAVACH - Safety Alert System IoT/Hardware
Voice-activated emergency response system for women 2024

- Engineered a hands-free safety device that detects predefined distress commands to trigger real-time alerts.
- Implemented instant location sharing to emergency contacts, reducing response time in critical situations.
- GitHub: [KAVACH01](#)

RAG-Based AI Chatbot AI/ML
Retrieval-Augmented Generation assistant for technical docs 2024

- Architected an intelligent chatbot capable of parsing complex PDFs to provide accurate, context-aware answers.
- leveraged Generative AI to synthesize technical information, enhancing accessibility for educational resources.
- GitHub: [RAG Chatbot](#)

HACKATHONS

Smart India Hackathon (SIH 2024) National
Museum Ticketing System - Frontend Flow Designer 2024

- Ideated and structured user flows for a multilingual chatbot-based ticketing system to replace manual queues.
- Collaborated on frontend strategy to ensure compliance with government usability and accessibility standards.

PRAMAAN TechKriti, IIT Kanpur
AI Financial Reporting System - Data Visualization Lead Mar 2025

- Spearheaded data cleaning pipelines and visualization strategies to simplify complex financial narratives.
- Researched regulatory report formats to optimize LLM training data, ensuring high factual accuracy in automated reports.

Vaayu Darshak
Hyperlocal AQI ML App - Domain Researcher

Bhartiya Antariksh Hackathon, ISRO
Jul 2025

- Led research on air quality indices to design emergency health advisory features for underserved rural areas.
- Collaborated on hybrid ARIMA+LSTM model integration to deliver accurate forecasts in low-data environments.

MANOBAL
Student Mental Health Platform - Experience Designer

Smart India Hackathon (SIH 2025)
2025

- Designed empathetic onboarding flows connecting students, counselors, and admins on a unified platform.
- Structured the UI architecture for AI chat and booking interfaces to prioritize user privacy and ease of access.

CERTIFICATIONS

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate
Supervised/Unsupervised Learning, GenAI, LLMs, OCI Services

Oracle
2025

Data Visualization with Python
Data Analysis, Matplotlib, Seaborn, Pandas

IBM
May 2024

Microsoft Learn Achievement Badge
Continuous Learning & Technology Stack Mastery

Microsoft
2024

Robots are coming! Build IoT apps with Watson
IoT Architecture, Node-RED, Arduino Integration

IBM
2023

L'Oréal Challenge - Certificate of Participation
Industry Problem Solving, Strategic Ideation

L'Oréal
2024