

Brajesh Ahirwar

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Summary

AI/ML Engineer with hands-on experience in building real-time machine learning systems, AI chatbots, and automation tools. Skilled in AWS cloud, networking, and deploying scalable solutions. Strong background in research and problem-solving.

Education

Sagar Institute of Research and Technology, Bhopal <i>B.Tech. in Artificial Intelligence and Machine Learning — CGPA: 7.69</i>	Jul 2026
Beersheba Higher Secondary School, Pipariya <i>12th PCM — 85%</i>	Aug 2022

Experience

Software Engineer — EnerginAI	Present
• Built NILM (Non-Intrusive Load Monitoring) system for real-time appliance-level energy prediction • Designed scalable ML pipelines using AWS (ECS, EventBridge, DynamoDB, S3) • Developed AI chatbot and solar energy prediction systems • Deployed production-ready ML solutions for real-time analytics	
AI Intern – Inventohack Innovations Pvt. Ltd. (3 Months, Hybrid)	Apr 2025
• Developed energy forecasting model achieving 86% accuracy • Built end-to-end ML pipeline from data collection to deployment • Worked with Python, Machine Learning, and data preprocessing techniques	

Projects

NILM — Energy Disaggregation System
• Real-time ML system to identify appliance usage from aggregated energy data • Deployed using AWS ECS, EventBridge, and DynamoDB for scalability • Implemented real-time inference pipeline for continuous energy monitoring and prediction
RAG-based Chatbot
• Built chatbot using LangChain + FAISS for intelligent document-based Q&A • Enabled semantic search and natural language interaction
Voice Bill Generator
• Converts voice input into structured billing data using speech-to-text pipeline • Designed automation workflow for real-time processing

Technical Skills

- Programming Languages: C++, Python, SQL
- Core Technologies: Machine Learning, Data Analysis, Flask, Power BI, Git, Networking, OSINT, CCNA
- Tools & Platforms: AWS (S3, ECS, Lambda, DynamoDB), Docker, Linux, VS Code, Google Collab, Nmap

Publications

Code Copyright: A Model for Prediction of Cardiovascular Diseases Using Machine Learning (<i>Sagar Institute of Research and Technology</i>)	Nov 2024
Brajesh Ahirwar , Malay Jain, Shubham Rahangdale, Aniket Kumar Mishra Regis No: L-157174/20242	

Achievements

- Secured **3rd position** in **IBM Skilled Build** Program on IoT by developing a **Soil Monitoring System** for smart agriculture applications..
- **5th positions** won among total 25 national teams at **1 Billion row data analysis at IIT-BHU**.
- **5th position** among total 30 selected teams in the **National Level Hackathon held at IIT-BHU**.
- Spearheaded the **Google Developer Group (GDG)** Python chapter at SIRT, conducting 10+ workshops on Google Technologies and fostering a coding culture among 50+ college students.

Soft Skills

- Quick Learner, Teamwork, Leadership, Time Management, Problem-Solving, and Adaptability

Interests

- Travelling, Chess