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Socials

Github: <https://github.com/ayush23a>

Linkedin: www.linkedin.com/in/ayush-aman-698035266

Kaggle: <https://www.kaggle.com/ayushaman2024>

Education

Institute of Engineering and Management

Bachelor's in Technology

Information Technology

YGPA 1: 9.34, YGPA 2: 8.67

Kolkata, West Bengal

August, 2027

Sree Ayyappa Public School

Senior Secondary Schooling, AISSCE

Grade: 91%

Mathematics and Computer Science

Bokaro Steel City, Jharkhand

March, 2021 - March, 2023

Experience

IEM IEDC Labs

Kolkata, West Bengal

Student Intern - Institution's Innovation Council

September, 2023 - April, 2024

- Worked on developing projects like Multi-purpose drones and personalised voice assistant.
- Enhanced problem-solving and product development skills by curating and solving diverse real-world challenges.
- Collaborated with peers to prototype tech-based solutions aligned with entrepreneurship and innovation goals.
- Gained exposure to startup workflows, MVP building, and innovation-driven product thinking.

Leadership & Activities

Google Developer Groups, IEM Chapter

Kolkata, West Bengal

Co-Lead, Machine Learning

September, 2024 - May, 2025

- Conducted hands-on sessions on ML algorithms, and real-world ML projects.
- Co-led the ML vertical under the official GDG Student Chapter, driving community engagement in AI/ML.
- Collaborated with core team for cross-domain tech events and hackathons.

PeerHub, IEM Chapter

Kolkata, West Bengal

Tech Lead

March, 2025 - Present

- Lead technical initiatives and student tech teams within the official PeerHub community chapter.
- Organized workshops, coding events, and mentored peers in Web Dev, App Dev, and ML.
- Fostered a peer-learning environment and promoted technical upskilling.

Projects

Automatic Voter Verification System *Google Solution Challenge, 2025*

Machine Learning, Deep Learning, Web 2.0, SQL, FastAPI, Python3

Developed an AI-driven biometric authentication system using facial and iris recognition to enhance voting security. Designed a centralized database for real-time sync to prevent vote duplication and tampering. Integrated AI safeguards to deter booth capturing and unauthorized machine access. Gained hands-on experience solving real-world civic-tech challenges.

ZhenLogix: Last-mile delivery optimization model *Walmart Sparkathon, 2025*

Python3, HTML5, CSS3 (Tailwind CSS), JavaScript, JSON, Leaflet.js, OpenWeatherMap API, Google Maps API, Firebase, Gemini API

Developed the ZhenLogix web application to optimize Walmart's last-mile delivery routes, directly addressing logistical inefficiencies.

Designed an intuitive UI/UX for streamlined multi-destination route planning and real-time mapping.

Integrated AI (Gemini API) for proactive weather-based driver suggestions and an interactive chatbot, enhancing operational resilience.

Implemented secure authentication (Firebase) to manage driver access and ensure data integrity.

CarboSense: Gen-AI based carbon footprint analyzer

Generative AI, Large Language Models(LLM), Data Analysis, Machine Learning, Web 2.0

Built an ML model to estimate and predict carbon emissions based on diverse daily activities and habits.

Integrated Gen-AI to provide personalized, actionable recommendations targeting the top emission contributors.

Enabled users to track habits and receive data-driven insights for reducing their environmental impact.

Focused on sustainability, behavioral analysis, and interpretable AI to drive eco-conscious decision-making.

Full Stack Personalised Voice Assistant

Python, HTML5, CSS, JavaScript, JQuery, Deep Learning, NLP

Link: https://github.com/ayush23a/Personalised_Assistant/tree/main

This is a personalised voice assistant which is designed on various algorithms. This prototype can do many of the most common tasks like telling time, real-time wishing, and searching for your queries on Google. This bot can also do real-time multi-lingual speech translation. It is still under further modifications.

Skills & Interests

Technical: Machine Learning, Deep Learning, Data Analytics, Artificial Intelligence, GenAI, Database Management

Tools: Pandas, Bash, Git, GitHub, Kaggle, TensorFlow, Keras, n8n

Programming Languages: Python, MySQL, C, C++, HTML5

Interpersonal Skills: Team Management, Team Coordination, Self Learning, Problem Solving

Certifications

- Generative AI for Software Development (IBM)
Credentials: <https://skills.yourlearning.ibm.com/activity/MDL-504>
- Introduction to Large Language Models (LLMs) - Google
Credential ID: ZTW8FP13S84U
Credentials : <https://www.coursera.org/account/accomplishments/records/ZTW8FP13S84U>
- MySQL Skill Certificate (Hackerrank)
Credentials : <https://www.hackerrank.com/certificates/d4de08ac3d68>
- Python Essential Training (Linkedin Learning)
- Fundamentals of Machine learning (Microsoft)
Credentials:
<https://learn.microsoft.com/api/achievements/share/en-us/AyushAman-3433/HA763JV8?sharingId=B648FEB1710F>
- Introduction to Generative AI (Google Cloud)
Credentials ID: 8826036
- Azure Fundamentals (Microsoft)
Credentials:
<https://learn.microsoft.com/api/achievements/share/en-us/AyushAman-3433/KGGC7GPB?sharingId=B648FEB1710F>