

MANSI SHARMA

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Education

Aligarh College of Engineering and Technology

Oct. 2022 – June 2026

Bachelor of Technology – Computer Science CGPA: 8.5

Aligarh, UP

Courses: Operating Systems, Data Structures, Analysis of Algorithms, Machine Learning, Networking, Databases

Experience

GirlScript Summer of Code (GSSoC)

Oct 2022 – Nov 2024

Contributor

Remote

- Contributed to scalable open-source software by identifying and resolving bugs, developing new features, and optimizing existing components. Delivered **21+ merged pull requests**, earning **745 contribution points**.
- Refactored code structure to align with **industry best practices**, improving **maintainability**, **readability**, and **scalability** across multiple codebases.
- Gained hands-on experience with **Git** for managing code changes, including **branching**, **merging**, and resolving **conflicts** in collaborative development workflows.

Edunet Foundation

July 2024 – Aug 2024

Cloud and AI Intern

Remote

- Managed and processed **250+ GB of unstructured data** using IBM Cloud Object Storage, reducing **retrieval latency** by 20% through optimized data handling strategies.
- Built **predictive ML models** using Watson Studio and Watson ML, increasing accuracy by 15% through **hyperparameter tuning** and advanced **data preprocessing**.
- Designed **Travel Thrifty**, an **AI-powered chatbot** for travel recommendations using Watsonx Assistant and Watsonx Studio, leading to a 40% increase in user engagement.
- Trained and deployed ML pipelines using **AutoAI**, improving prediction precision by 25% across multiple datasets by leveraging **automated model selection and tuning**.

Projects

FlowMind – AI-Powered DSA Visualizer

GitHub

React.js, Tailwind CSS, Express.js, Gemini API, Mermaid.js, Postman

June 2025

- Built an **AI-powered platform** that generates **flowcharts**, **multi-language code**, and **complexity analysis** for DSA problems.
- Used the **Gemini API** to produce **algorithm explanations**, **pros/cons**, and **step-by-step logic**.
- Visualized **recursive problems** like N-Queens using **Mermaid.js** and animated **backtracking** in **React**.
- Built a **modular Express.js backend**, tested with **Postman**, ensuring clean and **scalable APIs**.

LivWell – Smart Housing and Property Management

GitHub

Team Lead — React.js, Tailwind CSS, Express.js, Firebase, MongoDB Atlas, Google Maps API

April 2025

- Led a team of 3 developers to design and deploy a **full-stack** real estate platform with secure role-based access and scalable cloud infrastructure.
- Built a **chatbot** and integrated **Web Speech API** for voice search to enhance **accessibility** and user engagement.
- Used **Google Maps API** for dynamic property rendering based on **latitude-longitude geolocation**.
- Handled data with **Firebase Realtime DB** and **MongoDB Atlas**, enabling **scalable backend storage**.
- Designed responsive **user dashboards** with Tailwind CSS for seamless **multi-device compatibility**.

Technical Skills

Languages: Python, C, C++, Java, JavaScript, SQL

Frontend: React.js, Next.js, HTML5, CSS3, Tailwind CSS

Backend: Node.js, Express.js, REST APIs, JWT, Socket.IO

Databases: MongoDB, MySQL, Firebase Realtime DB

Developer Tools: Git, GitHub, VS Code, Postman, IBM Cloud, Watsonx Assistant, Watson Studio

Soft Skills: Growth Mindset, Inclusive Collaboration, Agile Teamwork, Self-Driven, Accountability, Logical Reasoning

Certifications & Achievements

- Solved **200+ problems on LeetCode** and **100+ on GeeksforGeeks**, strengthening data structures and algorithms.
- Achieved **Level 3 Conqueror** in **Coding Ninjas 21-Day Coding Challenge**, demonstrating coding consistency.
- Completed **Generative AI by Google**, focused on prompt engineering and large language model fundamentals.
- Certified in **Artificial Intelligence and Machine Learning** by YBI Foundation (2023), with projects on prediction models.