

# SANGEETA MITTAL

## Software Developer

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### Summary

Passionate Software Developer with hands-on experience in backend development and AI-based projects. Proficient in C++ for data structures and algorithms and Node.js for backend development. Skilled in machine learning and NLP, with strong problem-solving abilities and a keen eye for optimizing performance.

### Skills

**Programming Languages:** C++, JavaScript, Python

**Backend and Databases:** Node.js, Express.js, REST APIs, MongoDB, SQL

**AI/ML and Data:** Machine Learning, Numpy, Pandas, Matplotlib, Sklearn, Deep Learning, Natural Language Processing

**Other Skills:** HTML, CSS, React.js, Git and Github, Postman, Object-Oriented Programming

### Experience

#### ML Research Intern

June 2024 – July 2024

Centre for Health Innovations (Manav Rachna International Institute of Research & Studies)

- Conducted a detailed literature review and co-authored a research paper on **Automatic Depression Detection using Machine Learning**.
- Worked on text and audio data within a 6-member team, **summarized various ML and DL methodologies used for data pre-processing and model building**.
- Formatted research paper in IEEE style and **managed 150+ citations across domains**, ensuring publication readiness.

### Projects

#### Audio to ISL Hand Sign Video Generation | Node.js, Express.js, Python, etc

February 2025 – October 2025

- Created an API endpoint which converts an audio file input to Indian Sign Language (ISL) video output.
- Used INCLUDE – publicly available word-level ISL dataset and google's **mediapipe holistic model** to generate 3D pose videos.
- Employed whisper module for fast speech-to-text conversion, made a deterministic model by defining text pre-processing rules, used Compromise module for NLP tasks and ffmpeg for video stitching.
- Improved latency from 13 seconds to 3 seconds on average, making it 4 times faster.**
- Accessible at [github.com/sangeetamittal/Audio-to-ISL-Hand-Sign-Video-Generation](https://github.com/sangeetamittal/Audio-to-ISL-Hand-Sign-Video-Generation)

#### Task Management Backend System | Node.js, Express.js, MongoDB

May 2025 – June 2025

- Created 7 endpoints where 2 are auth endpoints – register and login, 4 are task endpoints and 1 is users endpoint.
- Tested all endpoints on Postman and deployed the system on Render ([task-management-api-jynt.onrender.com](https://task-management-api-jynt.onrender.com)).
- It provides **JWT-based user authentication, role-based access control (RBAC), password hashing using bcryptjs and input-validation using express-validator**.
- Access complete documentation and source code here: [github.com/sangeetamittal/Task\\_Management\\_Application](https://github.com/sangeetamittal/Task_Management_Application)

### Certifications & Awards

- OCI AI Foundations Associate – August 2024 ([LINK](#))
- Azure AI Fundamentals – December 2023 ([LINK](#))
- Made it to the Dean's List by being in Top 5% Academic Scorer – 2024 - 2025
- Won 1st Prize in Competitive Coding, Manav Rachna International Institute of Research & Studies

### Education

#### B.Tech. Computer Science Engineering (AI/ML)

Manav Rachna International Institute of Research & Studies, Faridabad, Haryana

Graduation: 2026

CGPA: 8.2 / 10