

Eshan Sud

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🔗 Portfolio

EDUCATION

Manipal University Jaipur

Bachelor of Technology in Computer Science and Engineering; **CGPA: 9.50 / 10**

September 2022 – July 2026 (Expected)

Jaipur, Rajasthan

- Relevant Coursework: DSA, OOP, OS, RDBMS, Computer Networks, Data Analytics, Machine Learning

Delhi Public School Mathura Road

High School; CBSE 10th (2020): 88.6%, CBSE 12th (2022): 96.8%

April 2020 – July 2022

New Delhi, Delhi

EXPERIENCE

Celebal Technologies Private Limited

Node.js Intern

May 2025 – July 2025

Remote

- Developed a **full-stack text-based restaurant chatbot** (DineBot) for managing reservations & orders using **Microsoft's Conversation Language Understanding** service; achieved **90%** F1 score.
- Deployed on **Azure** with a complete **CICD pipeline** using **GitHub Actions**. Handled **400+** simulated queries with **88%** intent recognition accuracy & reduced manual booking efforts by an estimate of **70%**.

Exato Technologies Private Limited

SDE Intern

June 2024 – August 2024

Noida, Uttar Pradesh, India

- Developed a **multi-modal Speech-to-Text pipeline** using **OpenAI-Whisper, Pyannote, & Python**, integrating **Speaker Diarization & Sentiment Analysis**; achieved **89%** accuracy on real-world audio via manual benchmarking.
- Built an **OCR-based Invoice Scanning System** using **Invoice2data, Regex, & Python**, achieving **92%** text extraction accuracy on varied pre-defined formats.
- Contributed to a **live project**, implementing secure login/signup, routing, & authentication using the **MERN stack**, **integrating** it with the **Invoice Scanning System** for **end-to-end automation**.

PROJECTS

3D Sparse Mapping using SLAM | C++, Raspberry Pi 5, ROS2, OpenCV4 | github.com/eshan-sud/3d-sparse-mapping

- Implemented a real-time 3D indoor sparse mapping pipeline using ORB-SLAM3 on a Raspberry Pi 5, achieving **20 FPS** in **Monocular** mode.
- Tuned ROS2 nodes & OpenCV pipelines to run with **< 160% CPU** & **< 800MB RAM** usage, enabling autonomous navigation for lightweight robotics.
- Benchmarked system accuracy across **50+** sequences across **TUM RGB-D, EuRoC MAV, & KITTI VO datasets**.

Task Master (Ongoing) | MongoDB, Express.js, React.js, Node.js |

github.com/eshan-sud/task-master

- Developing a full-stack task management platform with task handling, calendar integration, notifications, collaboration features, etc, facilitated better task tracking & collaboration.

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, HTML5, CSS3, JavaScript

Database Management: MySQL, MongoDB, ChromaDB

Tools: Git/GitHub, GitHub Actions, Postman, VSCode, Linux, Docker, REST API, Microsoft Azure, Vercel, Supabase

Libraries: Tailwind CSS, React.js, Node.js, Express.js, Pandas, Numpy, Matplotlib, Streamlit, ROS2, OpenCV

ACHIEVEMENTS

- Recipient of **Academic Scholarship** by Manipal University Jaipur
- Recipient of **Dean's List of Excellence in Academics** for **6+** consecutive semesters by Manipal University Jaipur.
- Recipient of **2 Student Excellence Awards** by Manipal University Jaipur (2025).
- Published **2** peer-reviewed research papers in the **IEEE Access journal**.
- Published **Patent Holder** (2025).
- Ranked 1st college-wide in **PwC Data Analytics** Certification (2025).
- OCI Generative AI Certified Professional (Oracle).
- CCNA Certified (Cisco).