Eshan Sud

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# **Summary**

Software developer pursuing a Bachelor of Technology in Computer Science and Engineering with more than a year of experience. Passionate about coding and committed to continuous learning, seeking a Software Development Engineer (SDE) role to leverage my skills in Python, Java and Web Development for creating innovative and impactful solutions.

# **Education**

**Manipal University Jaipur** Expected July 2026

* Bachelor of Technology in Computer Science and Engineering; **CGPA (2025): 9.56**
* Relevant coursework: Data Structures and Algorithms, Object Oriented Programming, Computer Networks,
 Operating Systems, Relational Database Management, Data Analytics, Machine Learning
* Academic Scholarship recipient
* Dean's List of Excellence recipient for four consecutive semesters

**Delhi Public School Mathura Road** July 2022

* CBSE 10th (2020): **88.6%**; CBSE 12th (2022): **96.8%**

# **Experience**

**Exato Technologies Pvt Ltd** June – August 2024

*SDE Summer Intern Noida, Uttar Pradesh*

* Developed an advanced **Speech-to-Text** project incorporating **Speaker Diarisation** and **Sentiment Analysis**, and **fine-tuned pre-trained Whisper models** for increased accuracy using **OpenAI-Whisper**, **Pyannote** and **Python**.
* Developed an **Optical Character Recognition (OCR)** and **Regular Expression** based **Invoice Scanning System**, achieving high accuracy in automated text extraction from invoices using Python and Invoice2data.
* Collaborated with a team to build **Login/Signup features**, **client and server-side routing**¸ **user authentication** and its successful **integration** with the **Invoice Scanning system** project using the **MERN stack**.

# **Projects**

**3D Mapping Using SLAM (*Ongoing*)** | *Raspberry Pi, ROS, RViz, OpenCV* | **[**[**github.com/eshan-sud/minor-project**](https://github.com/eshan-sud/minor-project)**]**

* Implementing a real-time 3D indoor mapping system using RGB-D SLAM algorithms on Raspberry Pi 5 for autonomous navigation of mobile robots.

**Task Master (*Ongoing*)** | *MongoDB, Express.js, React.js, Node.js* | [**[github.com/eshan-sud/task-master]**](https://github.com/eshan-sud/task-master)

* Building a **task management full stack web** application with task handling, calendar integration, notifications, collaboration features, etc, facilitated better task tracking and collaboration.

**Voltify** | *Python, Operating Systems* | **[**[**github.com/eshan-sud/voltify**](https://github.com/eshan-sud/voltify)**]**

* Developed a **utility tool to monitor battery usage**, providing battery level notifications, generating battery health reports, and toggling battery saver mode.

# **Certiﬁcations**

* **Design and Analysis of Algorithms – Elite** | NPTEL | Sep' 2024
* **Oracle Cloud Infrastructure 2024 Generative AI Certified Professional** | Oracle University | Jul' 2024
* **Programming, Data Structures and Algorithms using Python – Elite + Silver** | NPTEL | Sep' 2023

# **Technical Skills**

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

**Database Management** : MySQL, MongoDB, ChromaDB

**Tools** : Git/GitHub, Postman, VSCode, Linux, Docker, Webpack, SEO, APIs, REST API

**Libraries / Frameworks** : Tailwind CSS, Flask, Java Swing, Java AWT, React.js, Node.js, Express.js, JWT,
 Nodemailer, Pandas, Numpy, Matplotlib, Streamlit, Scikit-learn, ROS2, OpenCV

# **Soft Skills**

* Strong problem-solving and analytical skills
* Effective communication skills and attention to detail