

Ratna Saathvika Varanasi

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Objective

A passionate and driven Computer Science Engineering (AI & ML) student eager to apply AI and software engineering principles to build practical, impactful solutions. A quick learner with leadership experience in student organizations and extracurricular activities.

Education

Bachelor of Technology in Computer Science Engineering (AI & ML)

Aug 2024 – May 2027

G. Narayanamma Institute of Technologies and Sciences (CGPA: 9.60)

Diploma in Computer Science Engineering

Sep 2021 – Apr 2024

Government Polytechnic Hyderabad (CGPA: 9.64)

High School

Apr 2011 – May 2021

Kendriya Vidyalaya No.1 Golconda (CGPA: 9.0)

Projects

Ink ToDoc — Handwritten Text Recognition & Document Conversion

Languages: Python, JavaScript | **Tech:** Flask, React.js, OpenCV, Tesseract OCR

- Developed a web application that extracts text from handwritten images and converts it into editable, well-formatted Word documents.
- Integrated an OCR pipeline with OpenCV and Tesseract, supporting multiple export formats and real-time text preview with editing capabilities.
- <https://github.com/ratnasaathvika/inkToDoc>

E-Braille — Interactive Android App for Learning Braille

Language: Java | **Tech:** Android development

- Developed a comprehensive Android app for Braille education, incorporating a complete character dictionary and engaging interactive practice modules.
- Implemented a progress tracker that updates users on their performance in the challenge and practice modules, encouraging consistent improvement.
- <https://github.com/ShanmukhKuppili/E-Braille>

Technical Skills

Programming Languages: Python, Java, C

Web & Mobile Development: HTML, CSS, React.js, Flask, Android (Java)

Database Management: MySQL, SQLPlus

Leadership & Achievements

- Vice Chair — ACM-SIGAI student chapter: Organized workshops and technical events.
- Coordinator — CSI student chapter: Organized technical events.
- NCC Corporal-ranked cadet: Developed discipline and leadership skills.
- Runner-up — All India South Zone Badminton Tournament.