

# Shreyas Mene

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## SUMMARY

A Computer Science student who is passionate about Artificial Intelligence and Machine Learning and has practical experience in full-stack development using the MERN stack. Proficient in Python, Java, and Data Structures & Algorithms, with a demonstrated capacity to develop and optimise applications as a result of internships at Pinnacle Labs and IIT Ropar (NPTEL). I am enthusiastic about the opportunity to leverage my exceptional problem-solving abilities to make a meaningful contribution to the technology community and create innovative solutions.

## TECHNICAL SKILLS

**Programming & Markup Languages:** Python, Java, C++, JavaScript, HTML, CSS, MySQL

**Frameworks, Libraries & Databases:** MongoDB, Express, React, Node.js, Tkinter

**Libraries & Tools:** NumPy, Pandas, Scikit-learn, Git

## PROJECTS

### EduAssess Platform

April 2025 – June 2025

*Technologies: MERN Stack, Hugging Face*

Developed and enhanced features for the platform as part of the NPTEL Summer Internship with IIT ROPAR.

Focused on creating modular frontend components and integrating a chatbot.

Implemented personalized assessment generation and improved user interaction with API-driven quizzes and theme customization.

### Varuna Chatbot

Sept 2025 – Present

*Technologies: MERN Stack (React, Node.js, Express), Gemini API, GIS APIs*

Developed a full-stack AI chatbot to provide real-time flood alerts by unifying fragmented data from the Central Water Commission (CWC) and IMD.

Utilized the Gemini API for advanced natural language processing to handle complex user queries about river levels, rainfall forecasts, and dam storage.

Integrated interactive GIS maps to help users visualize and understand regional watershed data and potential flood risks.

## EXPERIENCE

### NPTEL Summer Intern

May 2025 – Jul 2025

Remote

IIT ROPAR

Developed and enhanced features for the EduAssess platform using the MERN stack.

Focused on modular frontend components, chatbot integration, and personalized assessment generation.

Improved user interaction through dynamic topic selection, API-driven quizzes, and theme customization.

## EDUCATION

### Vellore Institute of Technology Bhopal University

Bhopal, IND

*B.Tech in Computer Science with specialisation in Artificial Intelligence and Machine Learning*

Sep 2024 – Present

### Delhi Public School, Bhilai

Bhilai, IND

*Higher Secondary Education in Science with Computer Science*

Mar 2020 – May 2024

## CERTIFICATIONS

NPTEL Joy of computing using python (Elite Gold Top 5%)

NPTEL Programming in Java (Elite Silver)

Introduction to generative AI (Google)