

NEHA TUTIKA

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LinkedIn

GitHub

Introduction

Computer Science student with hands-on experience in full-stack web development, Python, and Java. Passionate about building efficient, scalable solutions and experienced in delivering academic and personal projects from concept to deployment. Strong problem-solver with a collaborative mindset.

Education

Amrita Vishwa Vidyapeetham

B.Tech in Computer Science and Engineering (**CGPA: 8.72**)

2024 – 2028

Coimbatore, India

Projects

Mastermind – Color Guessing Strategy Game

GitHub

- Developed an interactive Mastermind game where players deduce a hidden color sequence using feedback clues — black pegs for correct color in correct position, and grey pegs for correct color in wrong position.
- Implemented AI solver using algorithmic strategies to optimally narrow down possibilities with each guess.
- Designed game-state evaluation logic to process feedback and eliminate invalid combinations efficiently.

ViziPass — Campus Gatepass Management System

GitHub

- Built a desktop app using **Electron.js** and **Node.js** to manage campus visitor entry with email-based approval and QR code gatepass generation.
- Integrated **Nodemailer** for real-time student approval via email and **QRCode.js** for auto-downloadable gatepasses upon approval.
- Implemented multi-page navigation with authentication, form validation, and a security dashboard to monitor campus visitors.

Movie & Series Review System

GitHub

- Built a console-based Java application to browse, filter, and review movies and series using core OOP concepts like Inheritance, Composition, and Interfaces.
- Implemented multi-user support with watchlist management, IMDb-style ratings, and filters by genre, language, country, and director.
- Enforced input validations for email, rating bounds, duplicate reviews, and student ID format across all user interactions.

SevaCare- Prescription Reader & Voice Assistant

GitHub

- Built a **FastAPI** backend that extracts structured data from prescription images and PDFs using **Google Gemini Vision AI**.
- Integrated **Microsoft Edge TTS** to read prescriptions aloud in 10+ Indian and international languages with auto voice mapping.
- Implemented multi-language translation of medical summaries and real-time file validation for images and PDFs up to 5MB.

EXTRACURRICULAR

National Service Scheme (NSS)

Volunteer

- Contributed to cleanliness drives, blood donation camps, and rural outreach programs as part of campus NSS initiatives.

Singing

- Passionate vocalist with experience in classical music, performed at college cultural events and fests.

Skills

Programming & Systems: Python, C, Java, Bash/Shell Scripting, Git, Linux

Backend & Databases: PostgreSQL, MySQL

Web & Mobile: HTML/CSS, JavaScript

Soft Skills: Team Collaboration, Problem Solving, Effective Communication