

# Neeharika Gudipudi

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## Summary

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Penultimate-year B.Tech (IT) student specializing in backend development and NLP applications using LLMs. Solved 350+ DSA problems; experienced in scalable systems using Flask, Node.js, LangChain. Led full-stack projects, owned backend architecture, optimized performance under load (100+ RPS). Thrives in ambiguous environments; strong at problem-solving, collaboration, and iterative delivery.

## Education

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### B.Tech – Information Technology

2023 - 2027

Shri Vishnu Engineering College for Women | CGPA - 9.14/10

## Skills

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**Programming Languages:** Python, C++, JavaScript

**Frameworks/Tools:** Flask, Node.js, REST APIs, Git, Postman, Socket.IO, JWT, K6, NGINX, PM2

**Databases:** MongoDB, SQL

**AI/ML & NLP tools:** Langchain, Huggingface Transformers, Matplotlib, Seaborn,

**CS Concepts:** OOP, Operating Systems, Time Complexity, Data Structures, Distributed Systems

**DevOps/Cloud:** Azure VM deployment, AWS (EC2, S3)

## Projects

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### GiGy - Task Marketplace Platform

[github-GiGy](#) 🔗

Designed and developed the distributed backend architecture for a real-time task marketplace.

- Designed and developed a distributed backend system with 12+ REST APIs to handle end-to-end task management for 100+ concurrent users.
- Implemented real-time messaging using Socket.IO and secure file uploads using Cloudinary.
- Wrote functional, edge-case, and performance tests using Postman & K6.
- Achieved 99.9% uptime under load by deploying on Azure with NGINX reverse proxy and PM2 process manager.
- Collaborated with frontend team to ensure seamless API integration.

### RAG - pdf summarizer

[github-rag-application](#) 🔗

Built a PDF summarization tool using LangChain + HuggingFace for contextual NLP.

- Built a retrieval-augmented generation tool that summarizes long PDFs(100+ pages) using vector embeddings
- Integrated ChromaDB for fast, vector-based document retrieval (10x faster than traditional search).
- Designed a Flask backend using Transformer models in under 2s latency.

### FeeTracking system

[github-feeTracking](#) 🔗

Built a Flask-based fee tracking dashboard with dynamic filtering and CSV export support.

- Designed a responsive frontend using HTML/CSS, integrated SQLite for student record storage.
- Developed data visualizations using Matplotlib/Seaborn to analyze and present student payment trends across departments.

## Problem Solving & Coding Profiles

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**LeetCode:** 350+ problems solved – [leetcode.com/neeharika20](#) 🔗

**HackerRank:** 5star in Python and Problem Solving – [hackerrank.com/neeharikagudipu1](#) 🔗

**Codeforces:** [codeforces.com/profile/neeharika\\_g](#) 🔗

## Achievements

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**Smart India Hackathon -** Pre-finalist, Worked on Alumini association platform under extreme time constraints.

**Myntra HackerRamp -** Advanced to Phase 3, worked on reel based product promotion by users.

**Codess.Cafe - Mentee,** Selected among 1000+ applicants for exclusive tech mentorship.

**Shortfilm Contest -** Winner (3000 cash prize) for original shortfilm concept & execution.

**Photography contest -** Won college-level photography contest; became a judge for the same contest in 2025