

# Pendela Manikanta Nageswara rao

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## SUMMARY

Passionate computer science student with a foundation in software development, AI, and ML. Eager to solve real-world problems, explore emerging technologies, and foster innovation through collaboration and diverse perspectives.

## EDUCATION

B.Tech	VNR Vignana Jyothi Institute of Engineering and Technology Computer Science and Engineering - CGPA:9.5/10	2023–2027
Intermediate	Motion Junior College MPC - 98.6%	2021–2023
School	Bhashyam Blooms 10th Grade - 89.9%	2020–2021

## TECHNICAL SKILLS

Languages	: JavaScript, TypeScript, Python, C++, C, Java
Frontend	: React.js, Next.js, HTML, CSS, Bootstrap, Tailwind CSS
Backend	: Next.js, Node.js, Express.js
Databases	: MongoDB, SQL
Tools	: Git, GitHub, Vercel, Render, Adobe Premiere Pro, Canva, Figma
Soft Skills	: Creative Thinking, Curiosity & Proactive Learning, Leadership, and Problem Solving

## PROJECTS

**DevScribe - Blog App** **February 2024**

- MERN-based blog app with OAuth login, user roles, and a rich-text editor.
- Supports file uploads, live notifications, and a responsive UI with Tailwind.

**ChatBot for Admissions** **January 2025**

- Developed an AI-powered chatbot for VNRVJIET admissions, providing real-time assistance on application procedures, eligibility, and courses, reducing manual inquiries from ~80 daily visitors.
- Integrated a vector database and optimized API queries using embeddings, overcoming complexities in retrieval and query processing for accurate, dynamic responses.

**Pixel-Paradise** **March 2024**

- Built a multi-game platform in Python with a centralized driver program, leveraging OOP principles.
- Managed complex visual integration and dynamic game state handling across multiple games.

**E-Commerce Platform** **November 2024**

- Developed a feature-rich e-commerce platform with authentication and payment integration.
- Built using React.js, HTML, CSS, Tailwind CSS, and Bootstrap for a responsive UI.

**Bank Account Management System** **December 2024**

- Created a Java-based CLI banking system with features like account creation, deposits, and withdrawals.
- Implemented secure transaction processing and user authentication for enhanced security.

**CI/CD Pipeline for Tutly** **April 2025**

- Set up CI/CD for Tutly with GitHub Actions and Docker for automated testing and deployment.
- Hosted frontend on Netlify/Vercel, improving efficiency and reducing update downtime.

## CERTIFICATES

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### Winner – VIVITSU25 National Level Hackathon

- Organized by FSW - Griet, Hyderabad

April 2025

### Completed MERN Full stack

- Master-coding

February 2025

### NPTEL Python (Silver Medal, Top 2% of the Course)

- Issued by NPTEL

April 2024

### Member of the Organizing Committee – ICTIEE 2025

- Issued by IUCEE, VNRVJIET

January 2025

### Student Coordinator – IUCEE Annual Student Forum 2025

- Issued by IUCEE, VNRVJIET

January 2025

### NPTEL C++ Programming - Completed

- Issued by NPTEL

November 2024

### Tableau Certification

- Issued by Internshala

March 2024

### Flutter Development Workshop

- Organized by GDGC, VNRVJIET

December 2023

## RESEARCH PUBLICATIONS

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### Efficient Decision-Making: Deep Q-Networks for Reinforcement Learning

Presented at the International Conference on Computational Mathematics and Applications (ICMA 2025)

January 16-18, 2025

### ACADEMIC SUCCESS UNVEILED: Student Performance and Lifestyle Factors

Under Review at the International Conference

## CO-CURRICULAR ACTIVITIES

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### Turing Hut - Coding Club of VNRVJIET :

- Ranked 39th among 600 students in the Turing Hut selection process.
- Actively participated in peer-to-peer learning sessions.

### Computer Society of India (CSI) :

- Selected as a volunteer through a competitive interview process among 300 students.
- Hosted Navigator, a flagship event of CSI, and contributed to the video editing and design team.

### Campus Innovations :

- Developed a chatbot for admissions, enhancing student interaction and response efficiency.
- Digitized coding subject records, moving from paper-based to online printing.

### Algorand Blockchain Club (ABC) :

- Engaged with blockchain concepts and tools through workshops and activities.

### Model United Nations Society (MUNSoc) :

- Organized major events, including Inter-College MUN and Youth Parliament.
- Contributed to videography, editing, and hospitality management.

### VJ Vibes - VNR Podcast :

- Served as a speaker, host, and RJ for VNRVJIET's official podcast.
- Conducted engaging interviews and discussions, enhancing the podcast's reach and impact.

### Stentorian - English Literature Club :

- An active member, organizing and hosting various literary events.
- Attended IIT Madras Saarang Fest, gaining technical and cultural exposure.

### Convergence - Annual Technical Fest of VNRVJIET :

- Led the documentation team, a role typically assigned to senior students. Managed official reports and event documentation, ensuring accuracy and professionalism.

### Vignana Vahini - VNRVJIET Magazine

- Serving as editor, managing content curation, editing, and publication to enhance the magazine's quality and reach.

## DECLARATION

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I hereby declare that the details and information provided above are complete and true to the best of my knowledge. I understand that withholding or misstating anything may result in refusal for placement.