

# Sambhav Vanigota

Full Stack Developer

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## SUMMARY

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Full-stack developer skilled in building scalable web applications, APIs, and ML-powered tools. Delivered measurable results including optimized NLP models and +40% user engagement.

## SKILLS

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Programming Languages: C++, Java  
Frontend: React, Next.js, TypeScript, Tailwind CSS, HTML5, CSS3, JavaScript  
Backend: Node.js, Flask, FastAPI, RESTful APIs  
Database: PostgreSQL, MongoDB  
ML/AI Integration: Python, spaCy, OpenCV, scikit-learn, MediaPipe  
Tools: Git, Docker, VS Code

## PROJECTS

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### Dyslexia Facial Detection (Research Project)

*Tech Stack: Python, MediaPipe FaceMesh, OpenCV, scikit-learn, TensorFlow/PyTorch*

- Designed a FaceMesh-based dyslexia detection system leveraging over 400 facial landmarks to identify subtle visual and muscular cues linked to reading difficulty.
- Preprocessed facial datasets using OpenCV and MediaPipe pipelines (cropping, alignment, normalization and landmark extraction), (85% accuracy), low-latency APIs (<300ms).
- Contributed to research documentation, experimental analysis, and model reproducibility for publication-level presentation.

### AI-Powered Movie Recommendation System

*Tech Stack: FastAPI, PostgreSQL (pgvector), Gemini Embeddings, Python, React, Tailwind CSS, Supabase*

- Developed a FastAPI backend with pgvector-enabled PostgreSQL to perform semantic similarity searches across movies, songs, and books.
- Designed REST APIs to handle content retrieval, filtering, and recommendation logic for user sessions.
- Built an interactive React + Tailwind frontend that dynamically visualized recommendation results with smooth UX.

## CERTIFICATIONS & ACHIEVEMENTS

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- Solved 300+ LeetCode Problems.
- Top 25 – TECHXcelerate Hackathon 2024 – National Level

## EDUCATION

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2023 - 2027 B.Tech in **Computer Science** at **Keshav Memorial Institute of Technology, Hyd**  
2022 Class 12th at **Nano Junior College** (GPA: 8.0/10.0)