Sanskruti Padamatintiwar

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PROFESSIONAL SUMMARY

Computer Science student with hands-on experience in developing web applications, backend systems, and AI-based solutions. Skilled in building interactive, real-time applications with a strong focus on performance and user experience. Experienced in ML, NLP, web development, and cloud technologies, and consistently improved coding skills through competitive programming. Looking for opportunities to apply technical skills to real-world industry projects

EDUCATION

Keshav Memorial Institute of Technology
Bachelor of Engineering in Computer Science — **CGPA: 8.64**

COURSEWORK / SKILLS

- Data Structures & Algorithms
- OOPS Concept
- Database Management System (DBMS)
- Operating Systems
- Cloud Computing
- Machine Learning
- Deep Learning
- Web Development
- Natural Language Processing

TECHNICAL SKILLS

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

Developer Tools: VS Code, PyCharm, IntelliJ IDEA Ultimate

Technologies/Frameworks: GitHub, SQL, Django, MongoDB, Express.js, Node.js, Git, AWS, Docker

Problem-Solving: Solved 400+ algorithmic problems across LeetCode and GeeksforGeeks, improving DSA and coding proficiency.

PROJECTS

Interactive Quiz Generator

- Developed an **AI-driven quiz generation platform** that creates dynamic quizzes in real time, improving student engagement and reducing educator workload.
- Integrated **Microsoft Phi-3.5 LLM** with a **Wikipedia RAG pipeline** to auto-generate topic-relevant questions, covering **70%** of user-requested subjects.
- Reduced manual quiz preparation by **40%**, enabling content teams to scale digital learning resources.
- **Tech Stack:** MERN, Flask, RAG, Wikipedia API, Microsoft Phi-3.5

Resume Scorer

- Built an **AI-powered resume evaluation system** using NLP-based skill extraction and semantic similarity to assess candidate–job fit.
- Applied **spaCy NER** and **Sentence Transformer embeddings**, achieving **85%+** accuracy in ATS score prediction during internal benchmarking.
- Delivered a **React + Flask** UI for real-time recruiter insights, reducing manual screening time.
- **Tech Stack:** React, Python, Flask, spaCy, Sentence Transformers, Hugging Face

Cognitive Skill Enhancement for Children

- Created an **interactive gamified learning app** with ML-driven adaptive difficulty to improve memory, logic, and problem-solving.
- Built performance tracking and analytics to provide personalized progress insights for learners.
- Increased engagement by **50%** through adaptive gameplay and real-time feedback.
- **Tech Stack:** MERN, Flask, Machine Learning

OTHER PROJECTS

RAG-Powered Conversational AI Chatbot
Automated File Upload & Storage Pipeline using MinIO Object Store

PUBLICATION

SansSandhi: Comparative Study of Deep Learning Models for Sanskrit Sandhi Boundary Detection — Accepted at **ICRCICN 2025**, to be submitted to **IEEE Xplore**.