PAVANKUMAR VADDEMANI

Aspiring web developer

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PROFESSIONAL SUMMARY

Aspiring web developer with hands-on experience in full-stack development and a strong foundation in HTML, CSS, JavaScript, React.js, and Django. Passionate about building responsive, user-centric web applications. Successfully developed a student marks tracker to manage academic data, showcasing end-to-end application development skills. Eager to contribute to dynamic teams and grow in a collaborative tech environment.

SKILLS

Python, JavaScript, HTML, CSS, Django, React.js, Redux, Node.js, Bootstrap, Pandas, NumPy, Matplotlib, Seaborn, Power BI, Excel, Natural Language Processing (NLP), Computer Vision, Large Language Models (LLMs), MySQL, MongoDB, Git, GitHub, Visual Studio Code (VS Code)

EDUCATION

BACHELOR OF TECHNOLOGY (B.TECH) IN COMPUTER SCIENCE & ENGINEERING　　CGPA: 7.97
Kandula Obulreddy Memorial College of Engineering , Kadapa　　Jan 2021 - Jan 2025

INTERMEDIATE (MPC - MATHEMATICS, PHYSICS, CHEMISTRY)　　Percentage: 80.3
Narayana Junior College , Pulivendula　　Jan 2019 - Jan 2021

SECONDARY SCHOOL CERTIFICATE (SSC)　　CGPA: 9.5
Swamy Vivekananda High School , Vempalli　　Jan 2018 - Jan 2019

WORK EXPERIENCE

DEVOPS INTERN | CLOUD & AUTOMATION ENTHUSIAST
ExcelR Solutions　　Jan 2025 - Apr 2025
- Built efficient pipelines using Jenkins and GitHub, improving deployment speed by 30%.
- Managed Docker and Kubernetes for scalable application deployment.
- Automated AWS provisioning with Terraform and Ansible, ensuring high availability and reduced manual effort.

PYTHON DEVELOPER | DJANGO ENTHUSIAST | SOFTWARE ENGINEER INTERN
ExcelR Solutions　　May 2024 - Jul 2024
- Contributed to building backend APIs and database models using Django.
- Implemented secure authentication and user role management.
- Optimized SQL queries to enhance performance by 30%.
- Integrated RESTful APIs to improve system scalability and overall efficiency.

PROJECTS

STUDENT MARKS TRACKER FOR B.TECH　　Jan 2025 - Present
https://gregarious-beijinho-6b2cdb.netlify.app/
- Built a full-stack academic marks tracking application using Django, Node.js, and MySQL, with secure user authentication and RESTful APIs.

- Developed a responsive UI in HTML, Tailwind CSS, JavaScript, and TypeScript featuring dynamic dashboards for semester-wise performance visualization.
- Enabled scalable CRUD operations for managing B.Tech student records, streamlining data input, updates, and analytics.

CONTEXT-AWARE KNOWLEDGE RETRIEVAL SYSTEM   Jan 2025 - Present

https://github.com/Pavankumarreddy17py/Pavankumarreddy17py-context-aware-docment-bot

- Developed an AI-powered offline chatbot using Retrieval-Augmented Generation (RAG) for document-based Q&A.
- Integrated Sentence-BERT for semantic search and Flan-T5 for context-aware answer generation.
- Designed a Flask-based web interface allowing users to upload PDF/TXT files and ask natural language questions.
- Implemented local vector indexing using FAISS for efficient, privacy-preserving document retrieval.
- Delivered a modular, scalable architecture with clear input/output flow and fast query response.

LYRICS GENERATING SYSTEM   Jan 2024 - Present

https://github.com/Pavankumarreddy17py/python-projects/blob/main/lyrics%20generating

- Developed using Python, Tkinter for GUI, and the Musicmatch API for fetching song lyrics across multiple languages.
- Integrated the Pillow Library to handle background images.
- Optimized integration of the Musicmatch API by developing a reliable matching algorithm that reduced lookup errors by over 30%, streamlining lyrical content delivery and enhancing overall application performance within tight deadlines.

ACHIEVEMENTS

LEETCODE ACHIEVEMENTS

https://leetcode.com/u/Pavankumarreddy63/

LeetCode: Solved 150+ problems using Python, focusing on Data Structures & Algorithms (Arrays, Linked Lists, Trees, Dynamic Programming).

HACKERRANK ACHIEVEMENTS

https://www.hackerrank.com/profile/vaddemanipavanr1

HackerRank: Achieved SQL & Python certifications, solving 100+ complex database queries.

COMPETITIONS

HACKATHON ACHIEVEMENTS

Hackathon Finalist: Ranked Top 10% in multiple hackathons, solving real-world problems.

LEADERSHIP

PRESENTER

Delivered educational talks in schools & colleges on technology awareness and food safety.