

VADDEMANI PAVANKUMAR REDDY

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<https://github.com/Pavankumarreddy17py> | <https://leetcode.com/u/Pavankumarreddy63/>

Portfolio 📁: <https://extraordinary-begonia-0b1bfa.netlify.app/>

OBJECTIVE

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.

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science & Engineering Kandula Obulreddy Memorial College of Engineering, Kadapa (Under JNTU Anantapur)	2021 – 2025 CGPA: 7.97/10
Intermediate (MPC - Mathematics, Physics, Chemistry) Narayana Junior College, Pulivendula	2019 – 2021 Percentage: 80.3 %
Secondary School Certificate (SSC) Swamy Vivekananda High School, Vempalli	2018 – 2019 GPA: 9.5/10

TECHNICAL SKILLS

Languages: Python, JavaScript
Web Development: HTML, CSS, Django, React.js, Redux, Node.js, Bootstrap
Data Science & Analytics: Pandas, NumPy, Matplotlib, Seaborn, Power BI, Excel
Machine Learning & AI: Natural Language Processing (NLP), Computer Vision, Large Language Models (LLMs)
Databases: MySQL, MongoDB
Developer Tools: Git, GitHub, Visual Studio Code (VS Code)
Problem Solving: 100+ LeetCode problems solved (Easy, Medium, Hard)

INTERNSHIP

Python Developer Django Enthusiast Software Engineer Intern ExcelR Solutions	May 2024 – July 2024
Python Developer and Django Enthusiast with experience as a Software Engineer Intern at ExcelR Solutions. Contributed to building backend APIs and database models using Django, implemented secure authentication and user role management, and optimized SQL queries to enhance performance by 30%. Integrated RESTful APIs to improve system scalability and overall efficiency.	
DevOps Intern Cloud & Automation Enthusiast ExcelR Solutions	Jan 2025 – Apr 2025
DevOps Intern with hands-on experience in CI/CD, cloud automation, and infrastructure management. 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.	

CODING PLATFORMS

Hacker Rank : <https://www.hackerrank.com/profile/vaddemanipavanr1>

Leetcode : <https://leetcode.com/u/Pavankumarreddy63/>

PROJECTS

Student Marks Tracker for B.Tech | PYTHON

2025

GitHub : https://github.com/Pavankumarreddy17py/student_marks_tracker

Web Link: <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 | PYTHON, FLASK, FAISS

2025

GitHub: <https://github.com/Pavankumarreddy17py/Pavankumarreddy17py-context-aware-document-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 | PYTHON

2024

GitHub: <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.

PERSONAL DEVELOPMENT/ ACHIEVEMENTS

LeetCode & HackerRank Achievements

- **LeetCode:** Solved 150+ problems using Python, focusing on Data Structures & Algorithms (Arrays, Linked Lists, Trees, Dynamic Programming).
- **HackerRank:** Achieved SQL & Python certifications, solving 100+ complex database queries.

Competitions & Technical Involvement

- **Hackathon Finalist:** Ranked Top 10% in multiple hackathons, solving real-world problems.
- **Technical Club Member:** Contributed to AI and web development projects.

Public Speaking & Leadership

- **Presenter:** Delivered educational talks in schools & colleges on technology awareness and food safety.