SACHIN KUMAR

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SUMMARY

Python Full Stack Developer with hands-on experience in Flask and Django, building secure, scalable REST APIs using JWT authentication and PostgreSQL. Proficient in frontend development with HTML, CSS, Bootstrap, and React, along with API testing, Docker-based deployments, and CI/CD fundamentals. Experienced in developing real-world enterprise applications involving dashboards, role-based access control, and analytics.

SKILLS

- **Languages:** Python, JavaScript (ES6+)
- **Frontend:** HTML, CSS, Bootstrap, React
- **Frameworks:** Flask, Django (MVC Architecture), REST APIs, FastAPI, JWT Authentication
- **Databases:** PostgreSQL, SQLite, MySQL, SQLAlchemy ORM
- **Core CS:** Data Structures & Algorithms, OOPs, DBMS
- **Testing:** Unit Testing, PyTest
- **API Tools:** Postman, Swagger
- **DevOps & Cloud:** Docker, CI/CD, AWS EC2 (Basics), Gunicorn, Git, Linux (Basics)

WORK EXPERIENCE

AI Intern – Edunet Foundation (TechSaksham Program) | Nov 2024 - Dec 2024

- Developed a Python-based NLP chatbot using regex pattern matching and fuzzy logic for intent classification.
- Implemented a CSV-driven conversational knowledge base with arithmetic queries and utility responses.
- Built and integrated a FastAPI REST backend with POST endpoints to serve chatbot responses.
- Designed a React-based chat interface and tested REST APIs using Postman.

PROJECTS

TestNest – AI-Powered Secure Exam Platform :

- Built secure exam system using Flask with role-based JWT authentication.
- Developed REST APIs with PostgreSQL for exams, results, and analytics.
- Designed dashboards to analyze 100+ exam attempts and performance metrics.
- Deployed production-ready application using Gunicorn and cloud setup.

WorkForceOptix – Workforce Management System :

- Developed a workforce and resource allocation platform to manage employees, projects, and bench strength.
- Implemented employee availability tracking Active, Bench, Partially Utilized with automatic bench calculation.
- Built project and resource allocation modules based on skills, availability, and duration to prevent overutilization.
- Designed dashboards and role-based authentication using Flask, SQLAlchemy, and JWT.

EcoChef – Food Waste Reduction Platform :

- Built a food waste tracking system to monitor prepared vs. sold items and calculate waste and cost impact.
- Developed order and delivery workflows to handle food orders from placement to completion.
- Implemented inventory management and analytics, integrating Pandas for analysis and ML-ready insights.
- Deployed a production Flask application using PostgreSQL, Gunicorn, and Render with role-based access control.

EDUCATION

BTech(CSE-Data Science) | 2022 - 2026
Lakshmi Narain College of Technology Excellence, Bhopal, M.P.

ADDITIONAL INFORMATION

Certifications:

- Python Foundation
- DBMS Part -1
- DBMS Part-2

Soft Skills:

- Problem-Solving
- Teamwork and Communication
- Leadership