POORNIMA MADDIPATI

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Professional Summary

Backend Software Engineer skilled in Python with experience building scalable systems using Django, Django REST Framework, and SQL databases. Proficient in designing REST APIs, implementing business logic, and optimizing backend performance. Strong understanding of OOP, SDLC, and Agile methodologies, eager to contribute to a tech-driven organization by developing reliable and scalable backend solutions.

Projects

Student Results Management System – Academic Management Platform| Django, React, PostgreSQL| *GitHub*| *Docs*
- Built a role-based Student Results Management System using Django REST with JWT authentication.
- Implemented exam scheduling, results publishing, and analytics dashboards for Admin, Teacher, and Student roles.
- Enabled bulk marks entry, subject-wise reports, and PDF exports using secure REST APIs.

Email Classifier| Python, Scikit-learn, NLP, Pandas, Django, React.js | *GitHub* | *Docs*
- Integrated an existing ML email classification model into a Django backend.
- Exposed model predictions via REST APIs for scalable client access.
- Implemented data preprocessing and API endpoints to handle incoming emails securely and efficiently.

PetZeno – Pet Adoption Platform |Django, MySQL/PostgreSQL | *GitHub* | *Live Demo*| *Docs*
- Designed backend architecture supporting multiple roles (Guest, Buyer, Seller, Admin).
- Implemented real-time messaging, adoption request tracking, and dynamic payment handling on the server side.
- Migrated DB from MySQL to PostgreSQL, ensuring 30% faster query execution.
- Deployed backend on Render with zero-downtime PostgreSQL hosting on Neon.

AI Bias Detector –Bias Detection Tool |Django REST, MySQL/PostgreSQL | *GitHub* | *Live Demo*| *Docs*
- Built REST APIs for CSV upload, bias analysis, and demographic parity computations.
- Processed datasets and generated analytics-ready results on the backend.
- Implemented CI/CD for backend deployment on Render, ensuring automated testing and smooth updates.

(Additional projects available on GitHub portfolio)

Skills

Languages: Python, SQL

Frontend: React.js, HTML5, CSS3 (Basic knowledge on frotnend)

Backend: Django, Django REST Framework (DRF), REST APIs

Database: MySQL

DevOps & Tools: Git, GitHub (Pull Requests, Branching, Collaboration), GitHub Actions (CI/CD), VS Code

Technical Concepts: DSA, OOP, OS, CN, MVC, Agile Development, JWT Authentication, Debugging, Documentation

Soft Skills: Problem Solving, analytical thinking, Team Collaboration, Eagerness to Learn, Adaptability

Trainings & Technical Experience

Backend Development Training (Python & Django)
- Completed structured training programs focused on Python backend development with Django and REST APIs.
- Gained hands-on experience in backend and frontend integration.
- Built and deployed **real-world projects**, implementing features like authentication, CRUD operations, and session handling.
- Strengthened knowledge of Object-Oriented Programming (OOP), and Exception Handling.
- Practiced software development life cycle (SDLC), and version control using Git and GitHub.

Education

Bachelor of Technology in Computer Science & Engineering
St. Mary's Group of Institutions for Women, Guntur, India | 2022 – 2026 | GPA: 8.19/10

Achievements
- Winner – Python Coding Competition (twice, intra-college)
- Participated in 5+ National Hackathons (Flipkart GRiD, Meesho, Adobe Hackathons, etc.)