ABHINAND K S *Python Backend & AI Engineer*

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PROFESSIONAL SUMMARY

Python Backend & AI Engineer (MCA 2024) with hands-on experience designing and building AI-powered backend systems using FastAPI, Django, and local LLMs (Ollama). Strong in REST API development, clean architecture, prompt-controlled AI integration , and production-ready backend design. Seeking entry-level Python Backend or AI Engineer roles.

TECHNICAL SKILLS

Programming Languages
Python, JavaScript

Backend & APIs
FastAPI, Django, REST APIs, Swagger / OpenAPI

AI/ML
AI Application Development, Large Language Models (LLMs), Prompt Engineering, Ollama

Databases
MySQL

Tools & Platforms
Git, GitHub, Docker (Basics), Kubernetes (Basics)

EDUCATION

Master of Computer Applications (MCA)
Amal Jyothi College of Engineering
2024
Score: 79.99%

Bachelor of Computer Applications (BCA)
Sree Keralavarma College
2022
Score: 66.5%

CERTIFICATIONS

- Cloud Computing - NPTEL
- Introduction to Internet of Things – NPTEL
- Docker Essentials
- Containers and Kubernetes Essentials

PROJECTS

AI Engineer Job Journey
Tech Stack: Python, FastAPI, Ollama (*LLaMA 3*), Pydantic
- Built a production-structured FastAPI backend using clean architecture principles
- Implemented an offline AI chat API using a local LLM (Ollama – LLaMA 3)
- Applied prompt discipline and system constraints to reduce hallucinations
- Designed structured request and response schemas using Pydantic
- Implemented graceful error handling and versioned APIs (/api/v1)
- Documented APIs using Swagger and followed professional Git workflow
GitHub: github.com/Abhinandks06/ai-engineer-job-journey

Smart Tutor - AI-Powered Learning Assistant
Tech Stack: React, Python, Django, AI / NLP
- Developed a full-stack AI-powered tutoring system to assist students with learning
- Built an interactive chat-based frontend using React
- Implemented Django backend logic to process user queries and deliver AI responses
- Designed the system to provide context-aware educational assistance
- Demonstrated practical application of AI in education technology (EdTech)

Multiservice Provider Platform
Tech Stack: Python, Django, MySQL
- Developed a service-booking web application for cleaning, plumbing, and laundry services
- Implemented role-based access for clients, service providers, and workers
Built features such as service scheduling, worker assignment, notifications, and feedback
- Improved service transparency and operational efficiency

PUBLICATION

National Conference on Emerging Computer Applications (NCECA 2024)

INTERESTS

Backend Development, AI Engineering, Applied Machine Learning, AI-powered Web Applications