

## **ABHINAND K S**

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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. Actively 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)

### **PROJECTS**

AI Engineer Job Journey

Tech Stack: Python, FastAPI, Ollama (llama3), Pydantic

- Built a production-structured FastAPI backend using clean architecture principles
  - Implemented an offline AI chat API using a local LLM (Ollama – llama3)
  - 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

## EDUCATION

Master of Computer Applications (MCA) – 2024

Amal Jyothi College of Engineering

Score: 79.99%

Bachelor of Computer Applications (BCA) – 2022

Sree Keralavarma College

Score: 66.5%

## PUBLICATION

Branch Accounts Classification and Setting Target Using Decision Tree

National Conference on Emerging Computer Applications (NCECA 2024)

## CERTIFICATIONS

Cloud Computing – NPTEL

Introduction to Internet of Things – NPTEL

Docker Essentials

Containers and Kubernetes Essentials

## INTERESTS

Backend Development

AI Engineering

Applied Machine Learning

Building AI-powered Web Applications