Sunil Das
Python | Generative AI | .NET Core
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Professional Summary

Senior Project Engineer with 4.5 years of experience in backend development, AI integration, and cloud-based monitoring solutions. Skilled in developing scalable and automated applications using .NET Core and Python. Hands-on expertise in Generative AI, RAG applications, and frameworks like LangChain, LLaMA, Azure OpenAI, and Hugging Face. Recognized for enhancing operational efficiency and delivering enterprise-grade solutions through innovation and collaboration.

Technical Skills

• Languages: Python, C#
• Frameworks & Libraries: Pandas, NumPy, Scikit-Learn, Matplotlib, GenAI, LangChain, CrewAI, FastAPI, Hugging Face, LlamaIndex, Django, .NET Core
• AI & Automation: Machine Learning, AI Agent, GitHub Copilot, Prompt Engineering
• Development Platforms: Jupyter Notebook, Visual Studio Code, PyCharm, Visual Studio
• Databases: PostgreSQL, InfluxDB, Chroma
• Version Control & DevOps: Git, Azure DevOps, CI/CD Pipelines
• Frontend/UI: HTML, CSS, JavaScript, MVC
• Other Tools & Skills: PowerShell Scripting, Entity Framework, Application Deployment, Software Development Life Cycle (SDLC), Debugging, PowerPoint, Excel

Professional Experience

Wipro Limited — Senior Project Engineer (May 2021 – Present)
• Led backend development and automation initiatives, reducing manual interventions.
• Delivered scalable enterprise applications using .NET Core and Python.
• Integrated Generative AI models to analyze engineer–customer interactions.
• Collaborated with stakeholders to deploy enterprise-grade business solutions.

Key Projects

Engineer Performance Monitoring Application (2024 – 2025)
• Built a .NET-based application to track engineer ticket performance.
• Designed dashboards for KPIs such as ticket resolution timelines.
• Integrated Python-based Generative AI models for conversation insights.
Citrix Grafana Cloud Monitoring Solution (2022 – 2023)
• Developed a .NET agent for real-time Citrix Cloud metrics via REST APIs.
• Implemented InfluxDB for time-series data storage.
• Created Grafana dashboards for performance monitoring.
Known Error Database (KEDB) Application (2023 – 2024)
• Built a RAG-based AI solution for recurring issues.
• Used LangChain and Ollama for context-aware responses.
• Reduced support response times using historical documentation.
Predictive Maintenance (2024 – 2025)
• Developed a machine learning–based predictive model to forecast machinery failures in enterprise environments.
• Utilized Python, Pandas, and Scikit-learn for data preprocessing, model training, and performance evaluation.
• Improved maintenance scheduling efficiency and reduced unplanned downtime through early failure detection.
AI-Powered Stock Trading Recommendation Engine
• Built a multi-agent system using CrewAI to analyze live market data and generate real-time Buy, Sell, or Hold recommendations based on price trends, volume, and momentum indicators.

RAG-Based Projects (Learning & Innovation)

• Q&A; system for PDF documents: Designed a Retrieval-Augmented Generation (RAG) model to extract and answer context-based questions from uploaded PDF files using LangChain and Azure OpenAI.
• Website-based Chabot for dynamic information retrieval: Built an interactive chatbot integrated with a website to provide real-time, context-aware responses.

• YouTube Chabot for contextual conversations: Created an AI chatbot capable of summarizing and answering questions from YouTube video transcripts.
• RAG-Chatbot using LangChain and Azure OpenAI: Developed a RAG-based chatbot using LangChain, Azure OpenAI, and FastAPI to provide intelligent, context-aware answers from custom document data.

Certifications

• Microsoft Certification: GitHub-Copilot 300
• Python Complete Course — Udemy
• RAG-Based Application Development — Udemy

Achievements

• Awarded for innovative use of GitHub Copilot in a coding hackathon by Microsoft.

Education

• M.Tech in Computer Science — BITS Pilani, Hyderabad (CGPA: 7.21) (June 2021 – Nov 2024)
• Bachelor of Computer Applications (BCA) — Creative Techno College, Angul, Odisha (CGPA: 8.65) (June 2017 – May 2020)

Languages

• English — Advanced
• Hindi — Advanced
• Odia — Native

Strengths & Attributes

• Strong problem-solving and quick learning ability
• Effective in team collaboration and project ownership
• Passionate about AI-driven solutions and innovation
• Proactive, self-motivated, and focused on continuous improvement