NIKHIL MISHRA

7827281374 ◇ Bhopal,M.P

nm47855r@gmail.com ◇ linkedin.com/in/nikhil-mishra ◇ www.Github.com

OBJECTIVE

Results-oriented Gen AI Developer with 2.5+ years of experience in designing end-to-end AI solutions, Fine Tuning and Deploying NLP, LLM and CV models,and building scalable backend services. Proficient in Python, FastAPI,Tenserflow, LangChain, YOLOv10, and Microsoft Copilot Studio. Adept at integrating AI tools to drive business efficiency and digital transformation

EDUCATION

Bachelor of Technology, R.G.P.V Bhopal   2019-2023
Electronics and Communication Engineering (7.14 CGPA).

SKILLS

Programming Languages	Python, SQL
Libraries/Frameworks	Transformers, Pytorch, Scikit-Learn, Pandas, Numpy, OpenCV, Langchain, Fastapi
Tools and Skills	NLP, LLMs, Yolo-V10, Deep Learning, Generative Ai ,Agentic Ai, Fine-Tuning
Tools and Platforms	Azure, Microsoft Copilot Studio, Github, Kaggle
DataBases	Postgresql, Vector Databases, Faiss, ChromaDB, Microsoft Dataverse

EXPERIENCE

AI Developer   Jan 2023 - Current
Bdo India LLp   *Bhopal M.P*

- Led the Saas Rag Development Project And Achieved Goal of Saas Product development for the company.
- Led the No click Dms Agent to Achieve the expertise in Agentic Ai development Using Microsoft Copilot Studio and Power Automate.
- Developed Pipelines for continuos Data flow from Differnt Api Endpoints to Fabric Data Lakehouse Using Pyspark , Pandas and Spark Sql.

PROJECTS

No-Click DMS Agent. Designed and implemented a fully automated, no-click DMS (Document Management System) Agent using Microsoft Copilot Studio, Dataverse, and Power Automate. This intelligent agent seamlessly executes end-to-end CRUD operations across multiple business modules including Orders, Appointments, Tasks, Cases, and Expenses, while also efficiently managing document workflows. The solution significantly enhances operational efficiency by minimizing manual intervention and enabling smart, conversational automation within enterprise systems.

SAAS Based RAG Application. Developed a scalable SaaS-based RAG (Retrieval-Augmented Generation) system leveraging LangChain, FastAPI, PostgreSQL, Azure Blob Storage, OpenAI, and other advanced tools. This solution is designed to intelligently ingest, understand, and retrieve information from large document sets provided by customers. It enables accurate query resolution, contextual responses, and supports automated report generation in multiple formats including Excel, PDF, Word, and plain text. The platform is optimized for multi-tenant deployment, ensuring secure, efficient, and dynamic knowledge management across use cases..

AI-Powered Wall Size Estimator. Developed an AI-powered tool using OpenCV and YOLOv10 to accurately detect and measure painted wall dimensions from images or live video feeds. The system leverages object detection and computer vision techniques to automate wall size estimation, reducing manual effort and improving precision for interior design, renovation, and construction applications

Automated Data Ingestion Pipeline in Microsoft Fabric for API-Based ETL. Built a robust data pipeline in Microsoft Fabric to seamlessly ingest and process large datasets (hundreds of thousands of rows) from FoundU and Cirka APIs using Pandas, PySpark, and Spark SQL. Implemented pagination handling, efficient API orchestration, and daily automated table refreshes, ensuring reliable, scalable, and production-grade data ingestion.

AI-Powered Voice-to-Voice Call Center Assistant with RAG and GPT-2 Fine-Tuning. Developed an AI-driven, voice-enabled call center assistant that performs real-time voice-to-voice customer interactions using a fine-tuned GPT-2 model. Integrated LangChain, Transformers, Torch, and other open-source tools to enable Retrieval-Augmented Generation (RAG), allowing the bot to understand queries, fetch accurate responses from internal knowledge bases, and engage in natural, dynamic conversations.

LEADERSHIP

- Led the end-to-end development of multiple AI-powered solutions, including a SaaS-based RAG platform, a no-click Copilot DMS agent, and a YOLOv5-based wall measurement tool. Demonstrated strong ownership, technical leadership, and cross-functional collaboration to deliver scalable, production-ready solutions with real-world impact.