

# Leveraging AI Expertise to Transform Industries

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Oluchi Obinna

# Introduction

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- Oluchi Obinna
- Aspiring Applied AI and Generative AI Specialist with Hands-on Azure AI Experience

Experienced in developing, deploying, and refining generative AI models using Microsoft Azure AI Foundry, with practical skills in AI project management, model deployment, and ethical AI usage.



# Generative AI with Azure AI Foundry Lab

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- **Skills Gained:**
  - AI model deployment in Azure
  - Resource management (AI Hub, Key Vault, Storage)
  - Advanced prompt engineering and ethical AI usage
- **Challenge Overcome:** Precise configuration of deployed models for optimized chat interactions.
- Lab: Created and deployed generative AI models
- Mastered: Azure AI Hub, AI Services, Resource Groups, Key Vault, and Model Deployment
- Learned: Context engineering, secure deployment, AI prompt optimization

# Case Study - AI in Government (Fraud Detection)

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## AI-Enhanced Fraud Detection

- Monitors transactions in real time
- Detects anomalies using machine learning
- Ensures secure data handling and compliance
- **Outcome learned:** Improved fraud prevention and faster response to suspicious activity

# Applying Azure AI to Transform Industries

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- Public Sector:  
AI-driven fraud detection
- Public Health:  
AI-powered mental health tools
- Fashion Industry:  
AGI for design, manufacturing, and supply chain

- **Azure OpenAI** → Develop custom GPT-powered chatbots with carefully engineered prompts to detect distress cues
- **Azure AI Form Recognizer + Azure Cognitive Search** → Automate document analysis, cross-reference tax filings faster
- **Azure AI Machine Learning** → Deploy advanced models to detect suspicious financial patterns and Automate design recommendations and optimize production workflows
- **Azure AI Vision** → Analyze global fashion trends from images and social media

# Let's Build the Future Together!

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- GitHub Portfolio: [ <https://github.com/108-olu/AI-Applications-Portfolio.git> ]
- Contact: emmaobii32@gmail.com | LinkedIn: [www.linkedin.com/in/](https://www.linkedin.com/in/)
- Additional skills:

→ Operating Systems: Windows, Linux  
→ Cloud Service: AWS  
→ Languages: Python, SQL, C, HTML, Bash scripting  
→ Containerization: Docker  
→ Infrastructure as Code: Terraform, Cloud Formation  
→ Database: Oracle Database, RDS

- Certifications: ArcGIS Desktop Entry (Foundational Skill)

