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This lab gave me an opportunity to study generative AI functionality through Microsoft Azure AI Foundry Portal. The essential task of the project involved building an Azure AI Foundry project deploying GPT-4 as well as testing different prompt engineering methods through the Chat Playground interface.

The Azure AI platform arranges generative AI projects under a single centralized system which includes AI services in addition to storage accounts key vaults and resource groups. I obtained practical deployment skills by working with GPT-4 along with understanding how to integrate model deployments into interactive chat interfaces.

Throughout the laboratory students acquired essential methods showing how effective prompting techniques enhance machine-generated outputs. I sharpened my ability to create task-specific prompts as I incorporated previous solutions for directive optimization along with linking external content and essential details prior to establishing output specification requirements. The exercise revealed that proper prompt design serves as a fundamental factor to obtain accurate and high-quality AI outputs.

The main difficulty during my work was managing the correct configuration of project settings which included selecting the correct resource group named "ResourceGroup1" together with choosing proper region selection because improper setup could lead to deployment failures. By following the customization procedure with attention to detail I managed to prevent significant problems from happening.

This lab demonstrated important knowledge about Azure generative AI solution deployment in addition to prompt engineering methods for AI guidance. Through this experience my ability to use cloud platforms managing AI resources alongside user application of these tools to develop intelligent applications became stronger.