Microsoft Learn Student Ambassadors

Mastering Azure OpenAl

Flavio Meyer



Agenda

- · About me
- Introduction to Azure OpenAl
- News from Microsoft Ignite 2024
- Key Features & Capabilities
- Use Cases
- · Demo: Building Infrastructure in Azure
- · Q&A Session

About Me

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About me | University

Higher Technical School Switzerland, MLSA since April 2024

About me | Tech

Azure Architect, Administrator, DevOps and Al Engineer









About me | Private Switzerland, Racket sport, Travelling



What is Azure OpenAl?

- Definition
 - · Integration of OpenAl's advanced Al Models with the Azure ecosystem
 - · Enables businesses to deploy and manage AI models
- Key Benefits
 - Scalability
 - Security compliance
 - Integration with other Azure services
 - Same token price as OpenAl
 - Available in 23 Azure regions

News from Microsoft Ignite 2024

- Azure Al Foundry
 - Unified AI platform
 - SDK, Tracing and Content safety for Images
- Azure Al Agent Service
 - · Public preview next month
 - Support for agents and multi-agents
 - · Easier integration with Fabric, Teams, SharePoint, etc.
- Azure Al Content Understanding
- Fine-tuning
 - Vision
 - Model distillation (teacher/student model approach)

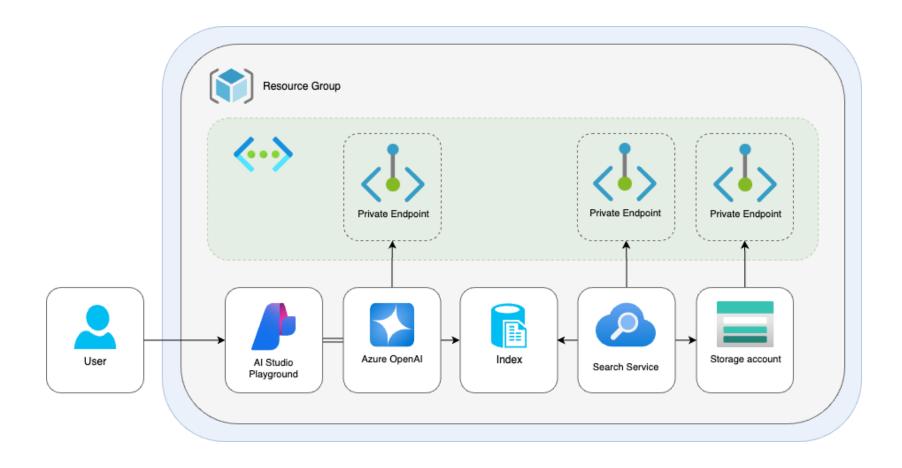
Key Features & Capabilities

- Natural Language Processing (NLP)
 - Text generation, sentiment analysis
- Machine Learning and Deep Learning Models
 - · GPT-3/4, Codex
- Data Integration
 - Easy integration with Azure Data Services
- Security & Compliance
 - Meets various industry standards (GDPR, HIPAA)

Use Cases

- Customer Service Automation
 - · Chatbots
- Content Generation
 - Blogging
- Predictive Analytics
 - · Business forecasting
- Software Development Assist
 - · Code completion, documentation

Architecture Overview



Getting Started with Azure OpenAl

- Prerequisites
 - Azure Subscription
 - Approved access to <u>Azure OpenAl Service</u>
 - · Not necessary anymore for regular model's excluding o1 and o1-mini
- Azure Resources
 - · Resource Group
 - · Azure OpenAl Service
 - · Azure Virtual Network (if API only private available)

Demo: Building Infrastructure in Azure

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Best Practices & Optimization

- Best Practices
 - Security best practices (API Keys, Managed Identities, Private Endpoints)
 - · Azure API Management
 - · Cost management
- Optimization Tips
 - · Scale resources as needed
 - Monitor and analyze usage patterns

Future Outlook

- Upcoming Features
 - · New model integrations in various Azure regions
 - · Enhanced performance features
- Industry Trends
 - · Increasing adoption of Al
 - · Enhanced AI ethics and governance

Question & Answers



Survey / Thank you



