

# MICROSOFT AI FOUNDRY GENERATIVE AI DEVELOPMENT HUB

Naveen Kumar M



# ABOUT ME

Naveen Kumar M



- **Data Engineer**
- **13 + Years of Experience**
- **2 x C# Corner MVP**
- **4 x Azure Certified**
- **Technical Blogger**
- **Speaker & Mentor**



Linked 



Naveen Kumar M

Data Engineer | SQL / ETL Lead |  
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# AGENDA

- Introduction to Azure AI Foundry
- Azure AI Foundry Architecture
- How AI Foundry Works
- What can we do with Project and Hub
- Demo
- Q& A

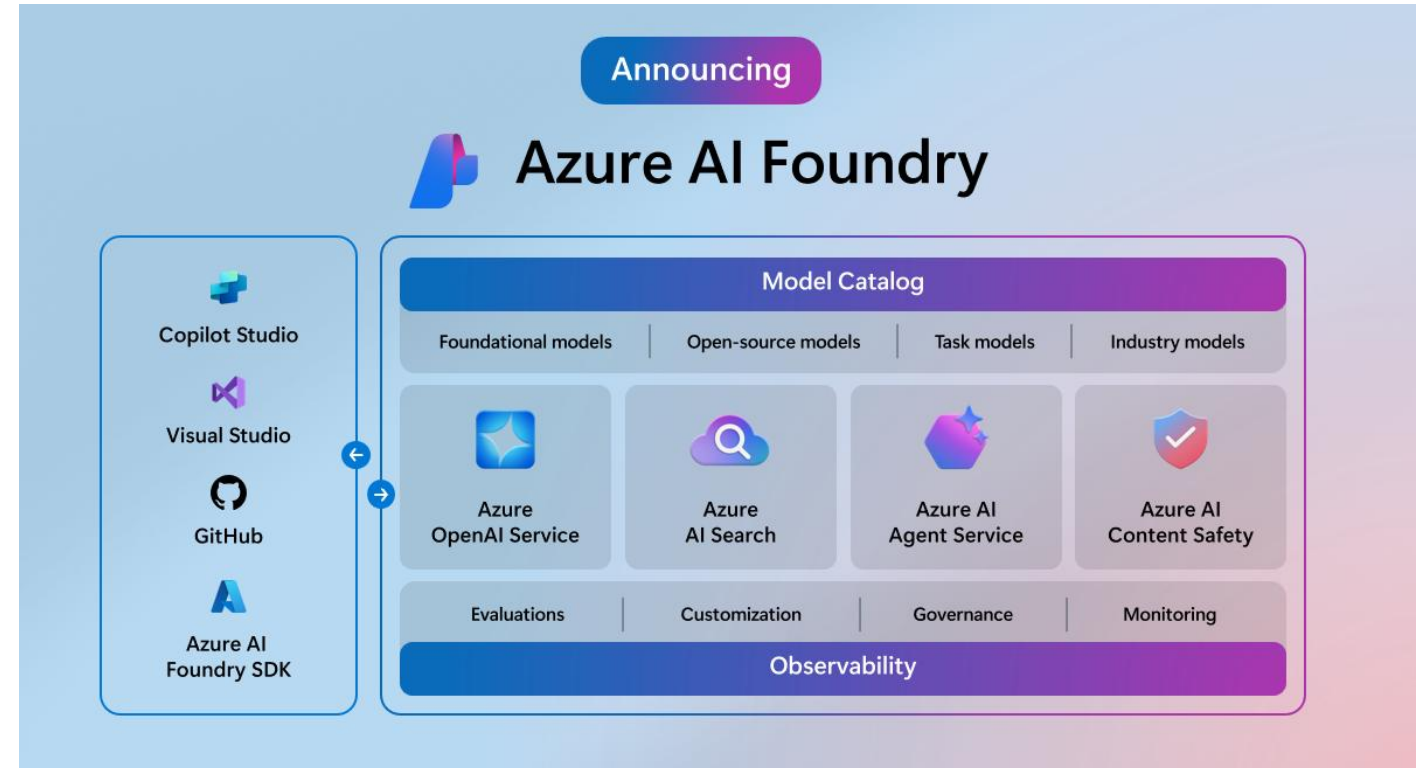
# WHAT IS AZURE AI FOUNDRY

## Azure AI Foundry

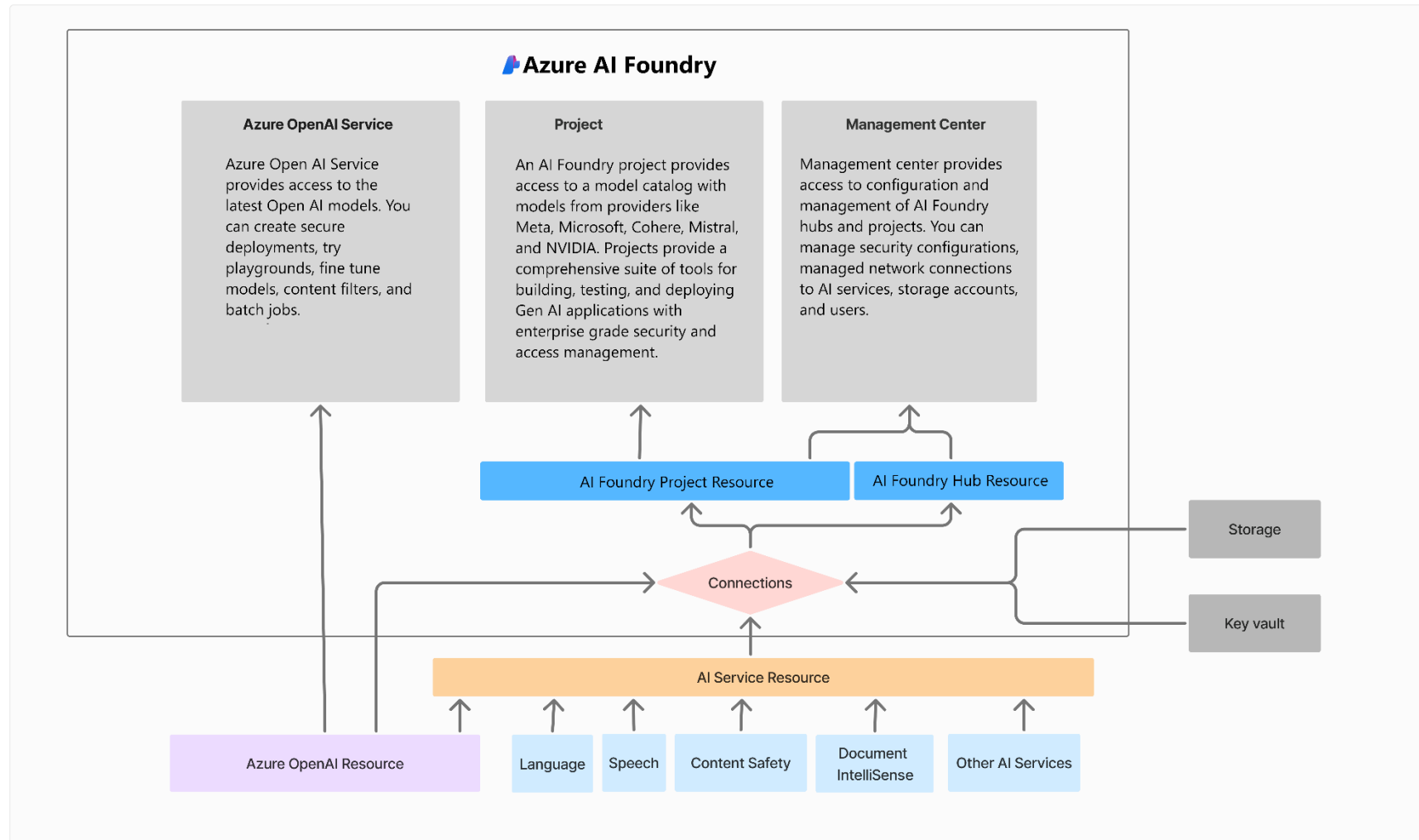
- All-in-one platform
- Formerly known as Azure AI Studio
- Designed for developers
- 1800+ pre built models

## Capabilities

- Build generative AI apps on a secure platform.
- Use advanced AI tools and models with responsible AI practices.
- Collaborate throughout the development lifecycle.
- Explore diverse models, services, and features.



# AZURE AI FOUNDRY ARCHITECTURE



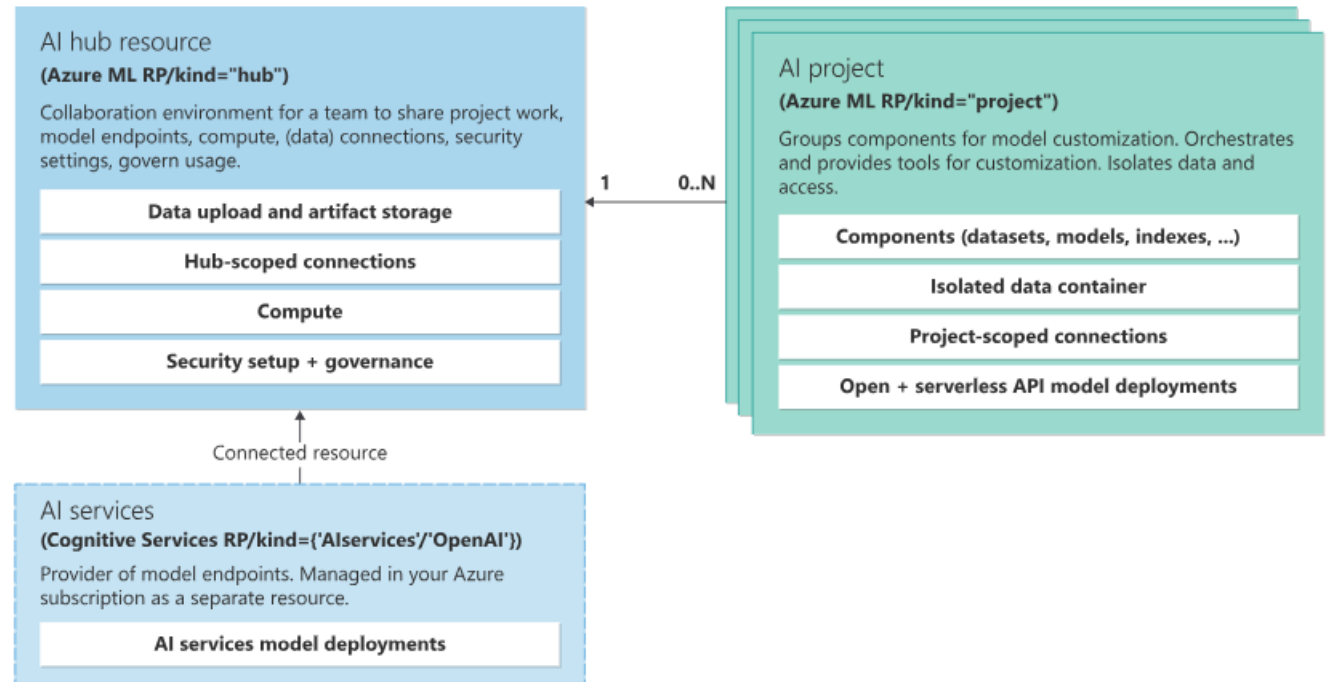
# HOW AZURE AI FOUNDRY WORKS?

## AI Foundry Hub

- Top-level resource in Azure AI Foundry.
- It provides the collaborative environment for a team to build and manage AI applications.

## AI Foundry Project

- A project is a child resource of the hub.
- It inherits the hub's connections, and compute resources.
- It serves as an organizational container with tools for AI customization and orchestration.



Resource Provider: Microsoft.MachineLearningServices/workspaces

# WHAT CAN WE DO WITH HUB?

## Azure Foundry Hub

- Manage members and assign roles.
- Set up and control compute instances for experiments and custom code.
- Connect to resources like data stores, GitHub, and Azure AI Search.
- Define policies, such as automatic compute shutdown.

### AI hub resource

(Azure ML RP/kind="hub")

Collaboration environment for a team to share project work, model endpoints, compute, (data) connections, security settings, govern usage.

**Data upload and artifact storage**

**Hub-scoped connections**

**Base model endpoints**

**Compute**

**Security setup + governance**

# WHAT CAN WE DO WITH PROJECT?

## Azure Foundry Project

- Deploy large language models for Chatbots or copilots.
- Test models in the chat playground.
- Augment prompts with your own data.
- Use prompt flow to combine models, prompts, and code.
- Evaluate model responses.
- Manage indexes and datasets for custom data.
- Set up content filters to prevent harmful responses.
- Use Visual Studio Code in the browser for custom coding.
- Deploy solutions as web apps or containerized services.

### AI project

(Azure ML RP/kind="project")

Groups components for model customization. Orchestrates and provides tools for customization. Isolates data and access.

**Components (datasets, models, indexes, ...)**

**Isolated data container**

**Project-scoped connections**

**Open source + finetuned model endpoints**





navin [redacted] ✎

? Help

Add a project description (optional) ✎

Overview

Model catalog

Playgrounds

AI Services

Build and customize ^

Agents PREVIEW

</> Code PREVIEW

Fine-tuning

Prompt flow

Assess and improve ^

Tracing PREVIEW

Evaluation

Safety + security

My assets ^

Models + endpoints

Data + indexes

Web apps

→ Management center

Endpoints and keys

[View all endpoints](#)

API Key

.....



Included capabilities

Azure AI inference

Azure OpenAI  
Service

Azure AI Services

Use the following endpoint to call all your deployed base models:

Azure AI model inference endpoint PREVIEW

[redacted]



{x} API documentation

Project details

Project connection string

eastus2.api [redacted] 📄

Subscription

Nav- [redacted] 📄

Subscription ID

[redacted] 📄

Location


eastus2 📄


Manage project settings

- Add users
- View quota
- Connect resources
- Track costs

Open in management center








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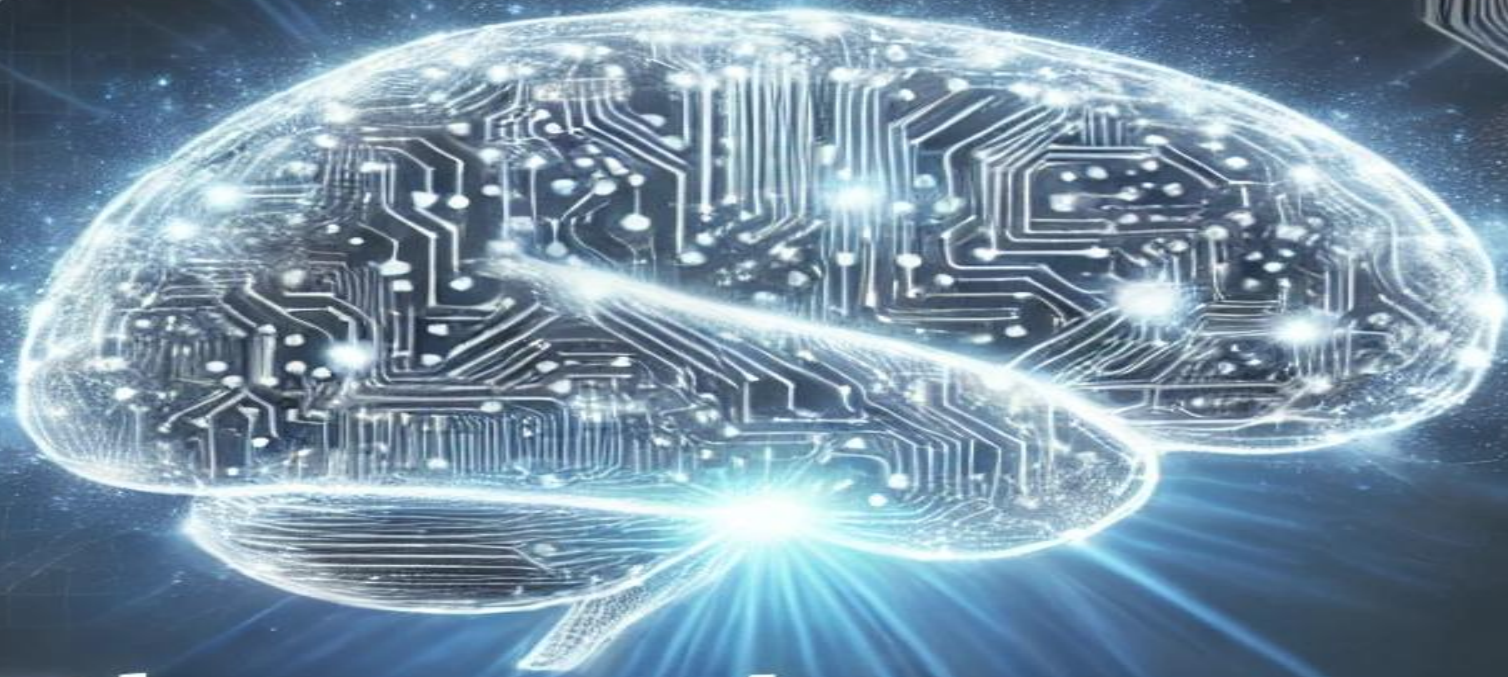


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# Thank you!

Empowering AI innovation with AI innovation



Microsoft AI Foundry