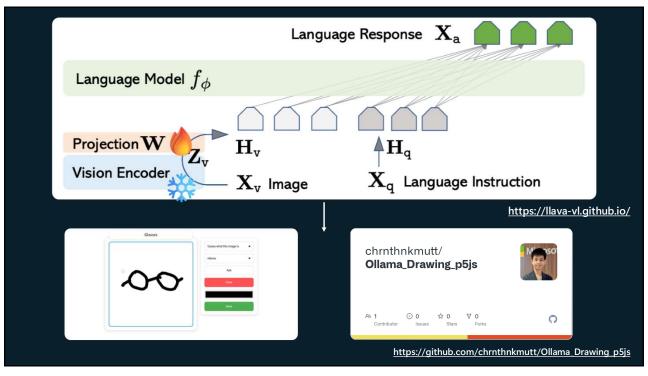
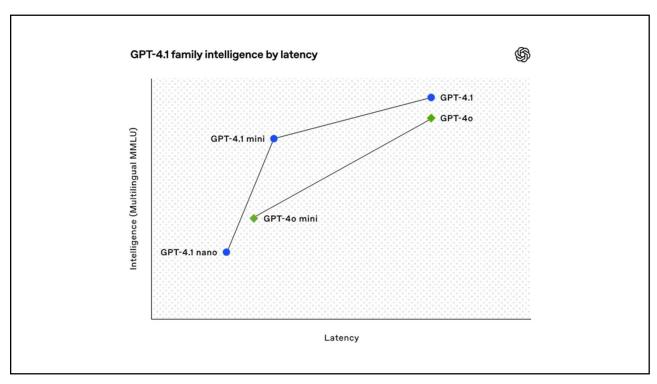
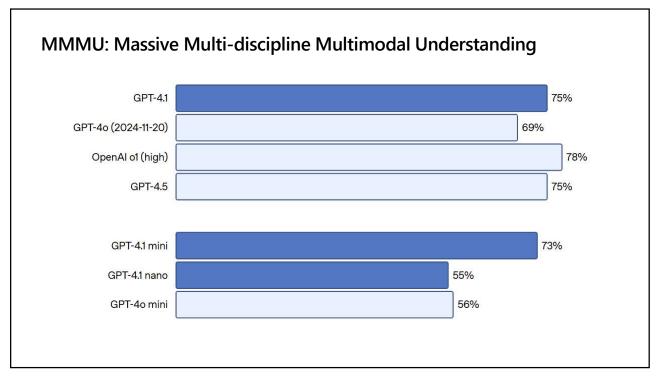


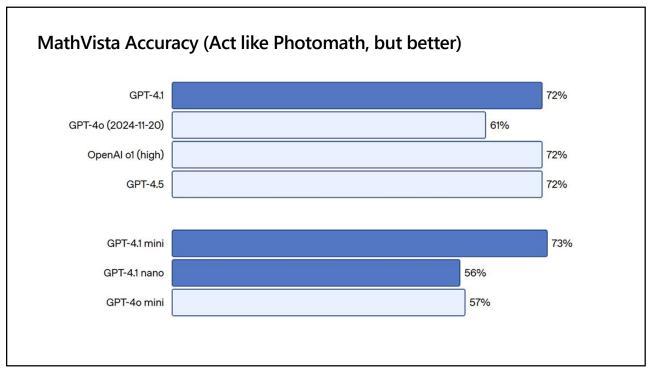
ر



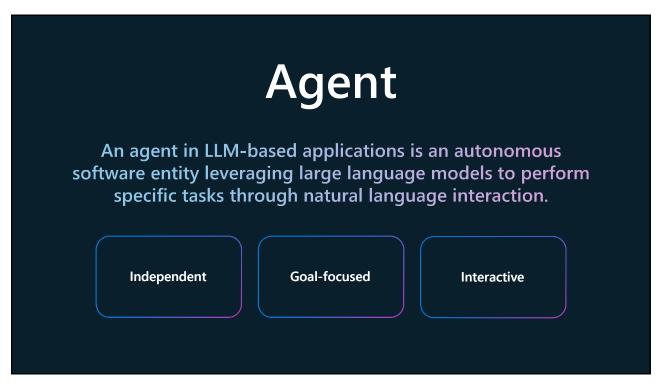


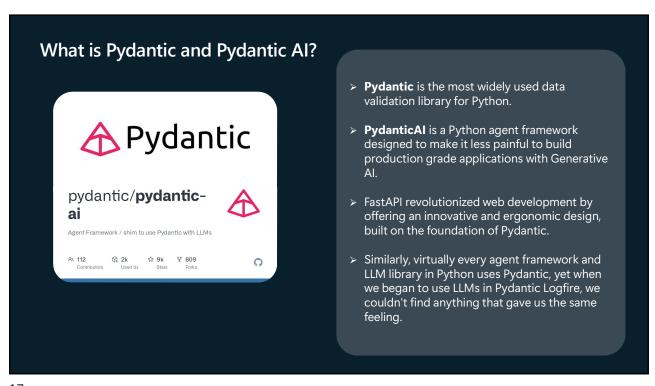


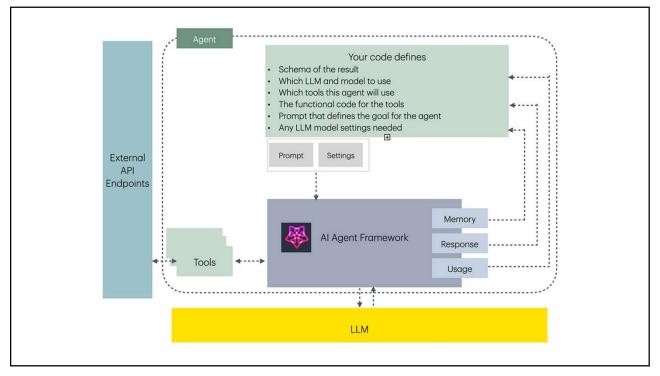












### Example Syntax of Inferencing OpenAI Models in with Pydantic AI

```
from pydantic import BaseModel
from pydantic_ai import Agent
from pydantic_ai.models.openai import OpenAIModel
                                                                 Environment Setup/Import Packages
from pydantic_ai.providers.openai import OpenAIProvider
import os # Import the os module
from dotenv import load_dotenv
from openai import OpenAI
# Load environment variables
load_dotenv()
class CityLocation(BaseModel):
   citv: str
   country: str
                                                                 Environment Declaration
openai_api_key = os.environ.get("OPENAI_API_KEY")
openai_provider = OpenAIProvider(
    api_key=openai_api_key
```

19

### Example Syntax of Inferencing OpenAl Models in with Pydantic Al

```
openai_model = OpenAIModel(
    model_name='gpt-4o', # Changed model name for official OpenAI
    provider=openai_provider
)

agent = Agent(openai_model, output_type=CityLocation)

# Now this call will go to the official OpenAI API
result = agent.run_sync('Where were the olympics held in 2012?')

print(result.output)

# Expected output might look similar depending on the model response
# > city='London' country='United Kingdom'

print(result.usage())

# Usage details will reflect tokens used on the official OpenAI API
# """

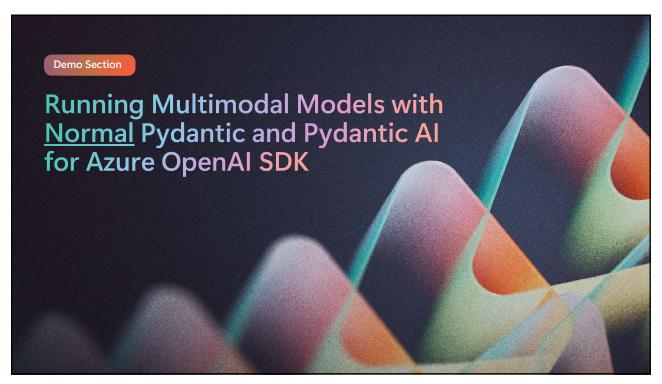
# Usage(requests=1, request_tokens=XX, response_tokens=YY, total_tokens=ZZ, details=None)
# """
```

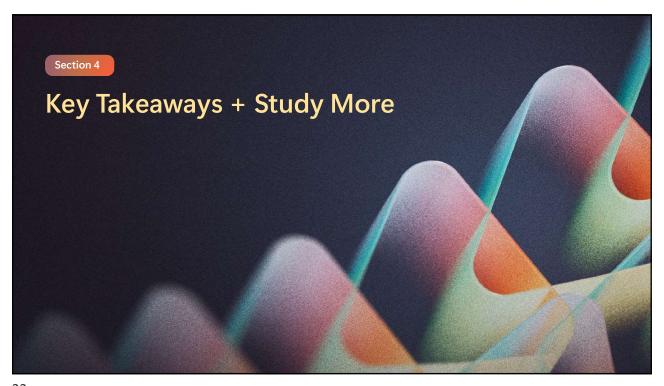
### Proposed Syntax of Inferencing Azure AI Models in with Pydantic AI

```
from pydantic_ai import Agent
from pydantic_ai.models.openai import OpenAIModel
from pydantic_ai.providers.azure import AzureProvider

model = OpenAIModel(
    'gpt-4o',
    provider=AzureProvider(
        azure_endpoint='your-azure-endpoint',
        api_version='your-api-version',
        api_key='your-api-key',
    ),
)
agent = Agent(model)
...
```

21





# **Key Takeaways**

- Multimodal Capabilities: Azure Al Foundry enables seamless interaction with Al models that process multiple types of data (text, images, etc.), enhancing Al-powered applications.
- GitHub Model Integration: Leveraging pre-trained Al models from GitHub simplifies deployment and experimentation, accelerating Al development within Azure.
- Agent-Based Al Interactions: Intelligent agents in Azure Al Foundry provide dynamic responses and automate workflows, creating more intuitive user experiences.
- Custom Model Adaptation: Developers can fine-tune and customize models to align with specific business needs, ensuring optimal AI performance.
- **Efficiency & Scalability**: Azure Al Foundry offers robust infrastructure to scale Al solutions efficiently, supporting enterprise-grade implementations.

## · Pydantic Documentation (OpenAl API on Ollama) • https://ollama.com/blog/structured-outputs · Pydantic Al Documentation • https://ai.pydantic.dev/models/openai/#azure-ai-foundry · GitHub Marketplace • github.com/marketplace/models Resource · GitHub Models in .NET with Semantic Kernel Blog · gh.io/ModelsSemanticKernel · Build Generative Al apps with .NET and GitHub Models · gh.io/GitHubModelsandDotnet · Microsoft Reactor: Prototyping Al Agents with GitHub Models • <a href="https://www.youtube.com/watch?v=LflBM3ntUSY">https://www.youtube.com/watch?v=LflBM3ntUSY</a> 25

