

Tamil Nadu



Welcomes you



What we do?



Meetups



Network of Beginners, Professionals & Experts



Azure Cert Study Jam



Corporate / Startup Talk



Podcasts



Fun contests

Azure Open Al

Introduction



- Experience in Analytics, Reporting and data engineering
- Azure Dev Lead and Microsoft Certified -Azure and Al Engineer
- Enthusiastic learner and tech community contributor

Navaneethan Gopal
Principal Data Scientist @ Ingram Micro

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Think Twice!!



Al Updates

This week witnessed lot of interesting AI developments like

- Google released PaLM API
- OpenAI released GPT-4 through ChatGPT plus subscription
- Stanford University researchers released Alpaca (open-source alternative to ChatGPT)
- Anthropic AI introduced Claude model
- PyTorch Lightning 2.0 and PyTorch 2.0 release
- Midjourney V5 (Realistic AI Image Generator)
- Microsoft 365 Copilot
- <u>AssemblyAI</u> releases Conformer-1 (Robust speech recognition model 650k hours of audio data)
- ChatGLM (opensource bilingual Chatbot model based on GLM)

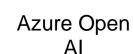
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Agenda



Welcome

Note





Open Al Models



Prompt Design



Use cases



Resources

Target Audience:

Level: Beginner

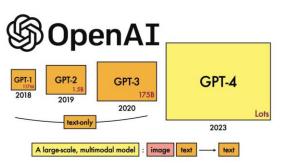
The session is intended for developers and beginners who are new to Azure Cloud, Machine Learning.

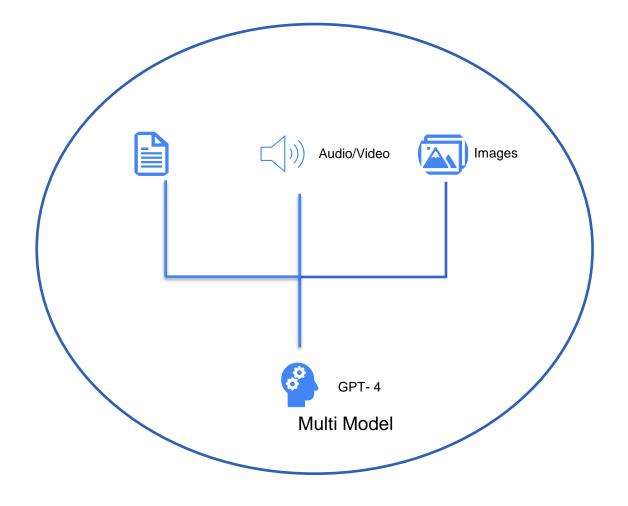
Azure account, Jupyter Notebook and Power BI

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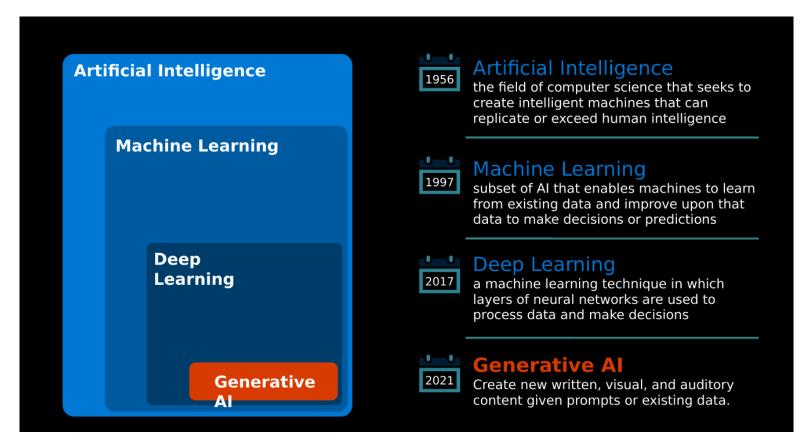
GPT-3 Vs GPT-4







Generative Al



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Why Azure OpenAl services

- Pre-trained generative AI models
- Customization capabilities; the ability to fine-tune AI models with your own data
- Built-in tools to detect and mitigate harmful use cases so users can implement AI responsibly
- Enterprise-grade security with role-based access control (RBAC) and private networks

Customer Stories

- Morgan Stanley wealth management deploys GPT-4 to organize its vast knowledge base.
- Khan Academy explores the potential for GPT-4 in a limited pilot program.

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Use Cases

- End to end call center analytics that takes your process all the way from classification through to email generation to increase productivity and save time and effort during call center operations.
- Customer 360 where hyper-personalization will use more than one of the above capabilities to ensure you have a complete and holistic view of your customers and are increasing your customer satisfaction, whilst using feedback and trends to serve them better in the future.
- Business Process Automation like document automation where we use capabilities across search, code generation and content generation to do things faster and more efficiently.

Content Generation

- Automate responses to customers
- Generate personalized UI for their company's website

Summarization

- Summarize conversation logs
- Social media trend summarization
- Subject matter expert documentation

Code Generation

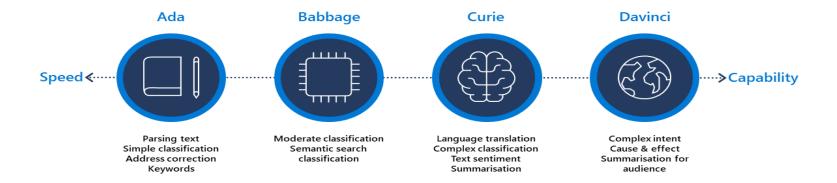
- Code documentation
- Convert natural language to programming code

Semantic Search

- Search reviews
- Information discovery and knowledge mining

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GPT- 3 models



Codex models

- Davinci
- Cushman

Deep dive and Play Ground

- Prompt Design
- Embeddings
- Fine-tuning

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Responsible Al

- Fairness: Al systems shouldn't make decisions that discriminate against or support bias of a group or individual.
- Reliability and Safety: Al systems should respond safely to new situations and potential manipulation.
- Privacy and Security: Al systems should be secure and respect data privacy.
- Inclusiveness: Al systems should empower everyone and engage people.
- Accountability: People must be accountable for how Al systems operate.
- Transparency: Al systems should have explanations so users can understand how they're built and used.

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Learning Resources

- Azure free account: https://azure.microsoft.com/en-in/free/
- Access Request:

 https://customervoice.microsoft.com/Pages/ResponsePage.aspx?id=v4j5cvGGr0GRqy180BHbR7en2Ais5pxK
 tso-pz4b1_xUOFA5Qk1UWDRBMjq0WFhPMklzTzhKQ1dWNyQIQCN0PWcu
- What is Azure Open AI? https://learn.microsoft.com/en-us/training/modules/explore-azure-openai/
- Pricing: https://azure.microsoft.com/en-us/pricing/details/cognitive-services/openai-service/
- Quota Limit: https://learn.microsoft.com/en-qb/azure/cognitive-services/openai/quotas-limits

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Source:

Open for Q&A





Thank you!!