# ISBS: Deploying Generative Al

**Mohannad Elhamod** 



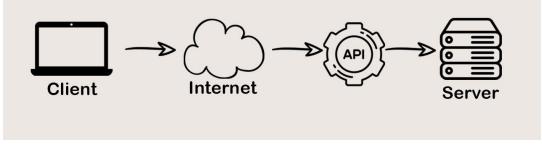
# Using APIs



#### What is an APIP

An Application Programming Interface (API) establishes a <u>"contract"</u> or <u>"glue"</u> that allows multiple pieces of software to communicate.

- Standardizes software development.
- Allows integration with online services.
- Is generally well-documented.



**CodeWithMazn** 







#### APIs that provide access to LLMs:

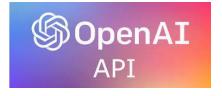
- You send a query/request (e.g., a prompt or a sentence)
- You get a response (e.g., a summary or a translation)













#### Why LLM APIs (vs. in-house)?



- Pros?
  - Less memory and compute resources needed.
  - Abstraction in terms of maintenance and updates.
  - Security?





- Cons?
  - Less control.
  - Maybe slower.
  - Cost.
  - Privacy.









## OpenAl API

- Documentation
- Playground
- Guide (notebook)
- Pricing



# Goud Computing



## What is Cloud Computing?

The technology that allows us to access computing resources over the internet (as opposed to purchasing our own resources).









### Subscription vs. Buying









wearekemb



### **Example: Microsoft Azure**







#### Infrastructure Services



Medium



## Code Development Tools





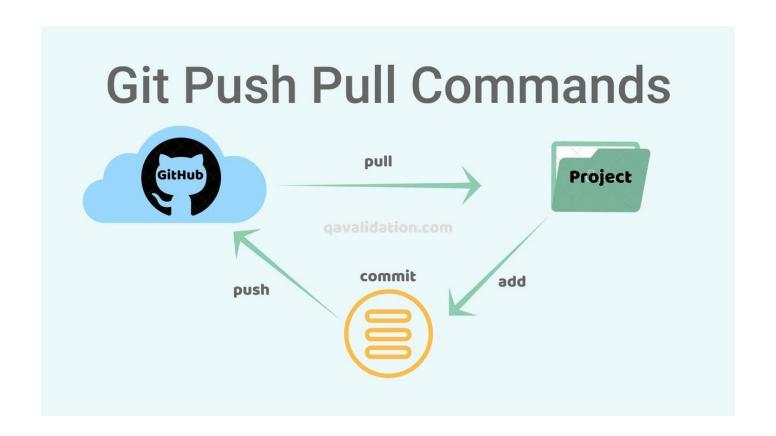
#### Widely used.

- Helps with team collaborations.
- Tracks code change history.
- Can automate tasks such as deployment.
- Allows multiple versions of the code (e.g., for different features).





#### The Git Workflow





## In-Glass Work

