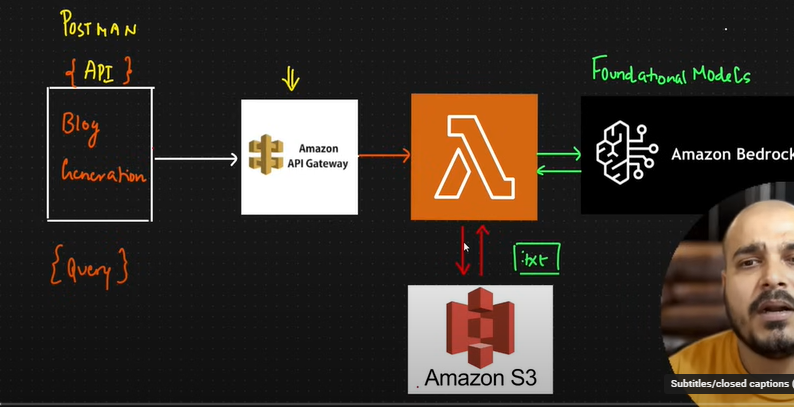
Proj overeview



Bedrock

A screenshot of a computer

Description automatically generated

Get model access

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

Then click on deploy

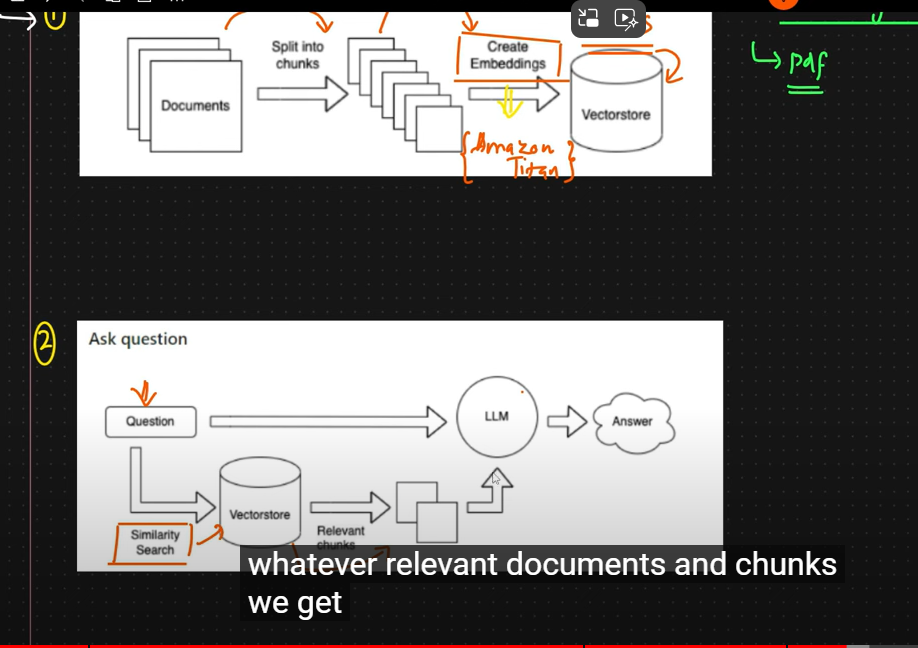
Before tht The packages needed by lambda should be inside a folder called python and that python folder should be zipped. That thought zip can be in any name.

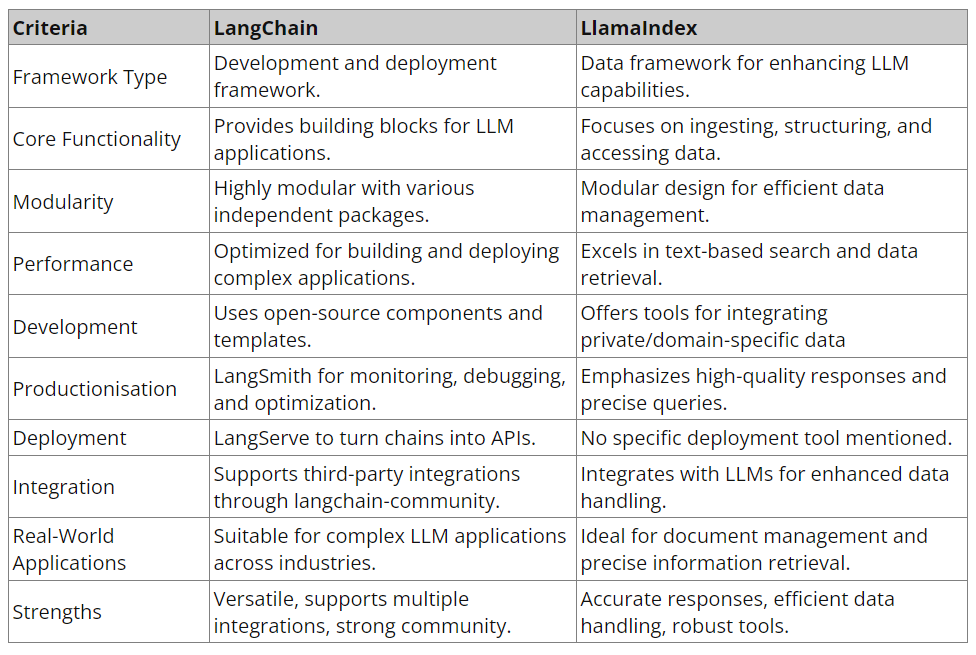
This zip file is added as something called a layer.So create a layer and add the zip file created above

Then create api gateway,route etc and hit the api

AWS SAGEMAKER

Document QnA project





Azure Prompt flow

A screenshot of a computer

Description automatically generated

A diagram of a life cycle

Description automatically generated

Scoping

A diagram of a process

Description automatically generated

Data

A diagram of data flow

Description automatically generated

Modelling

A diagram of modeling process

Description automatically generated

A screenshot of a computer

Description automatically generated

 **Sigmoid**: Maps input to a range between 0 and 1.

σ(x)=11+e−x\sigma(x) = \frac{1}{1 + e^{-x}}σ(x)=1+e−x1​

 **Tanh (Hyperbolic Tangent)**: Maps input to a range between -1 and 1.

tanh⁡(x)=ex−e−xex+e−x\tanh(x) = \frac{e^x - e^{-x}}{e^x + e^{-x}}tanh(x)=ex+e−xex−e−x​

 **ReLU (Rectified Linear Unit)**: Outputs the input directly if it is positive; otherwise, it outputs zero.

ReLU(x)=max⁡(0,x)\text{ReLU}(x) = \max(0, x)ReLU(x)=max(0,x)

 **Leaky ReLU**: Similar to ReLU, but allows a small gradient when the input is negative.

Leaky ReLU(x)={xif x>0αxotherwise\text{Leaky ReLU}(x) = \begin{cases} x & \text{if } x > 0 \\ \alpha x & \text{otherwise} \end{cases}Leaky ReLU(x)={xαx​if x>0otherwise​

where α\alphaα is a small constant.

 **Softmax**: Converts a vector of values to a probability distribution.

Softmax(xi)=exi∑jexj\text{Softmax}(x\_i) = \frac{e^{x\_i}}{\sum\_{j} e^{x\_j}}Softmax(xi​)=∑j​exj​exi​​

Good use case for retail analytics: [Retail analytics use case | Retail analytics case study | Retail analytics dashboard (youtube.com)](https://www.youtube.com/watch?v=PNQfJGODY7Q)