



BUILDING LLM

CHAT APPS

USING OPEN SOURCE TOOLS



WHO IS THIS GUY?



Work in a SaaS software start up.

Decade working in financial services as
consultant/quant

Love making things

BUILDING CUSTOM WEB CHAT BOTS

Research

Use online resources to find available.

I use:

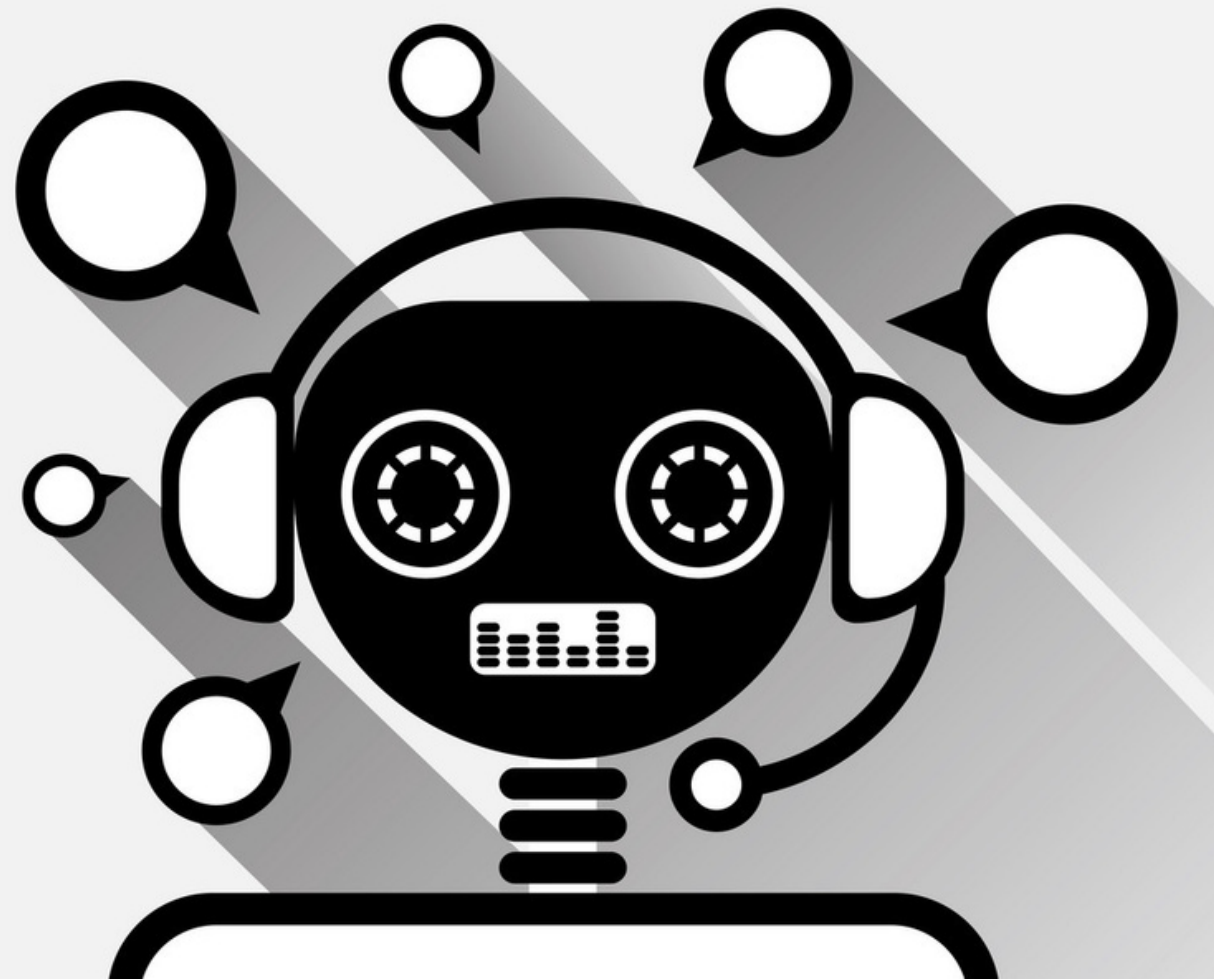
- Twitter
- Youtube
- Github

Development

Begin with testing individual components then add on customization.

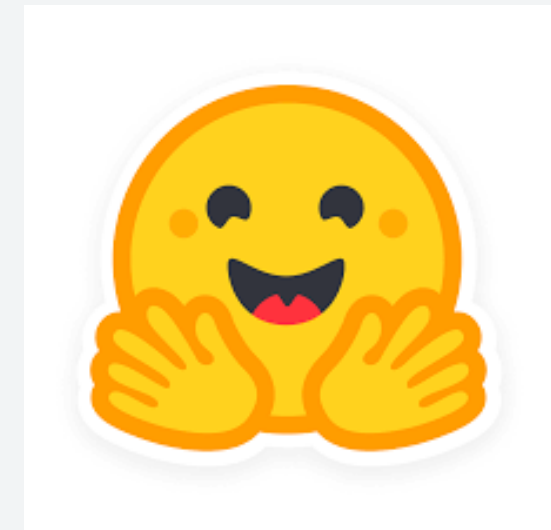
Test & Deploy

Test the LLM outputs as they are fragile. Deploy to preferred cloud app.



OPEN SOURCE TOOLS USED

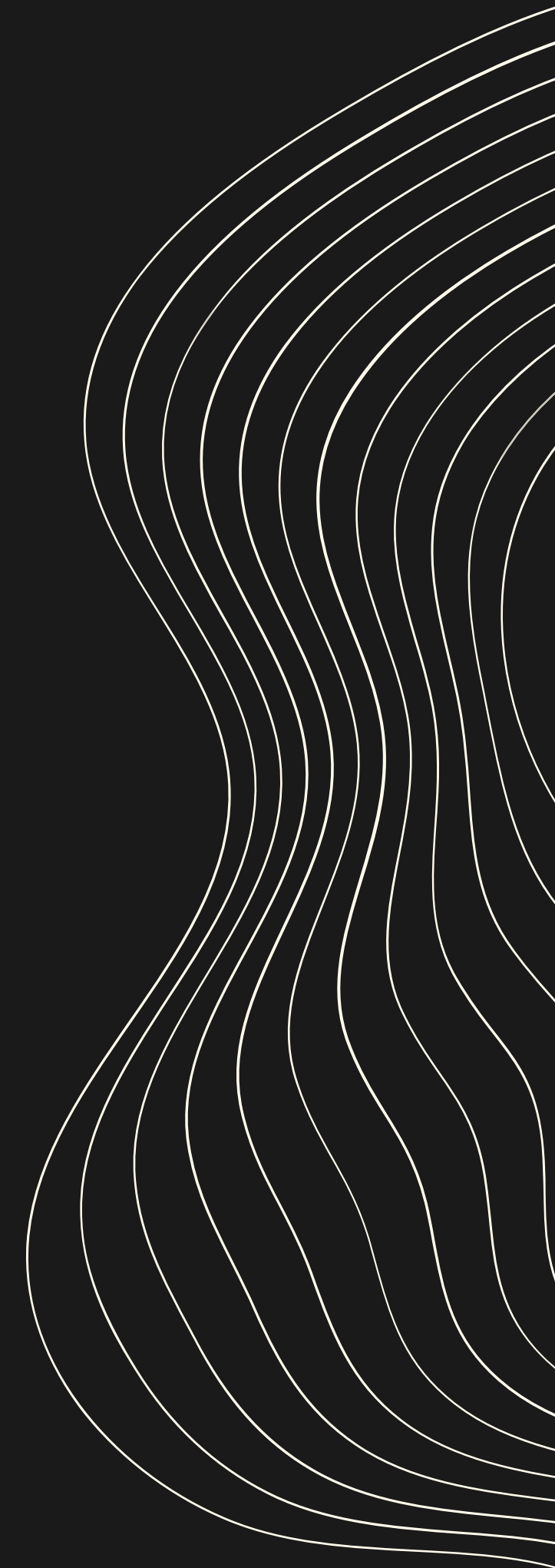
The open source landscape is chock-full of talented developers creating powerful tools. These tools are often more than just barebones applications; they can be fully featured business technology solutions.



really
simple

LLM WEB APP

Init Chainlit
Application

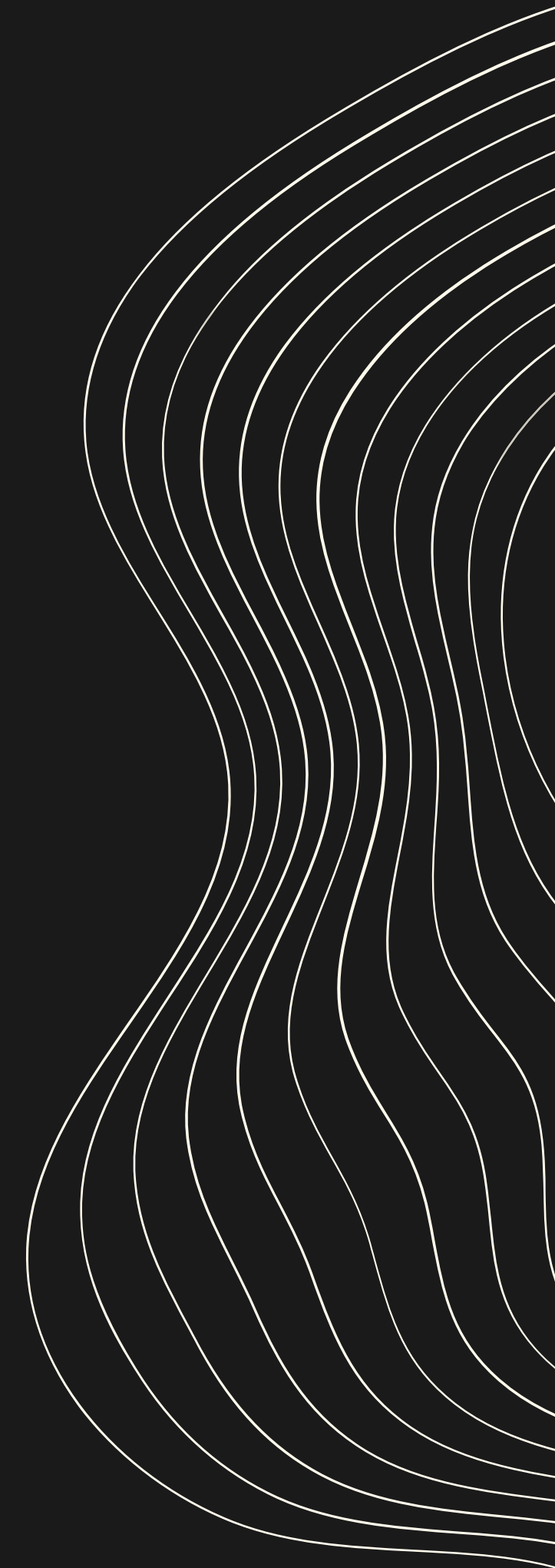


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LLM WEB APP

PDF Document

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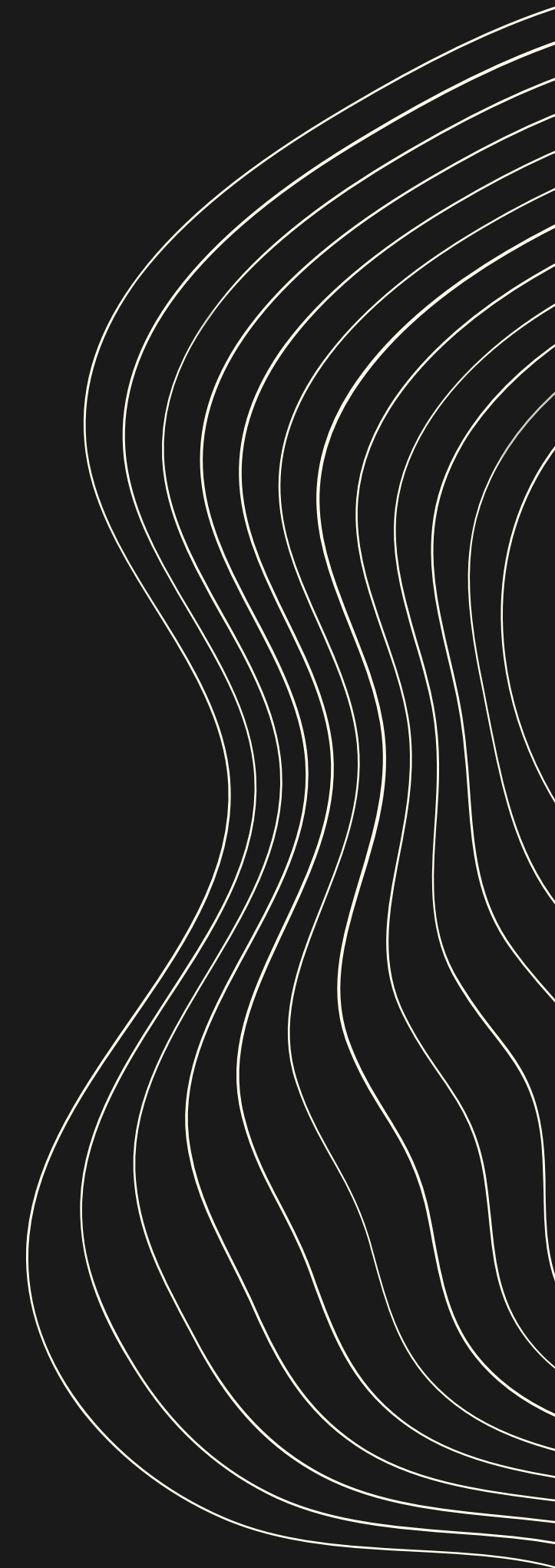
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LLM WEB APP

PDF Document

Init Chainlit
Application

Vector
Embeddings
Model



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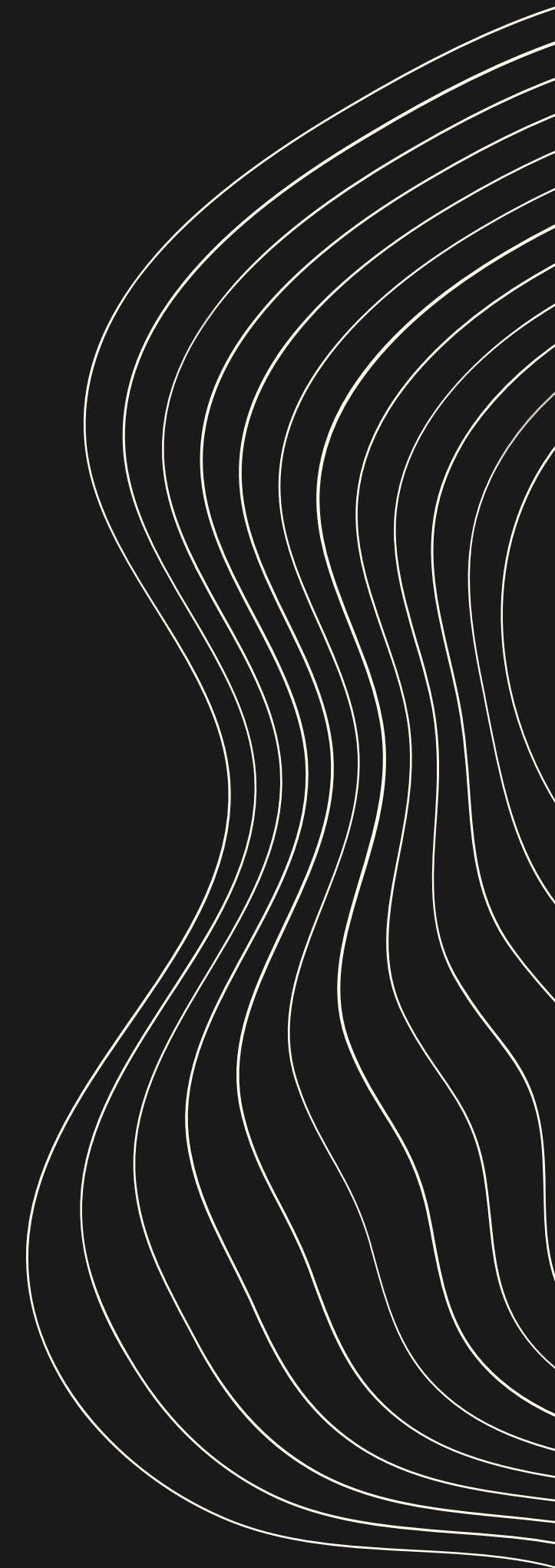
LLM WEB APP

PDF Document

API call with
Embeddings

Init Chainlit
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Vector
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Model



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LLM WEB APP

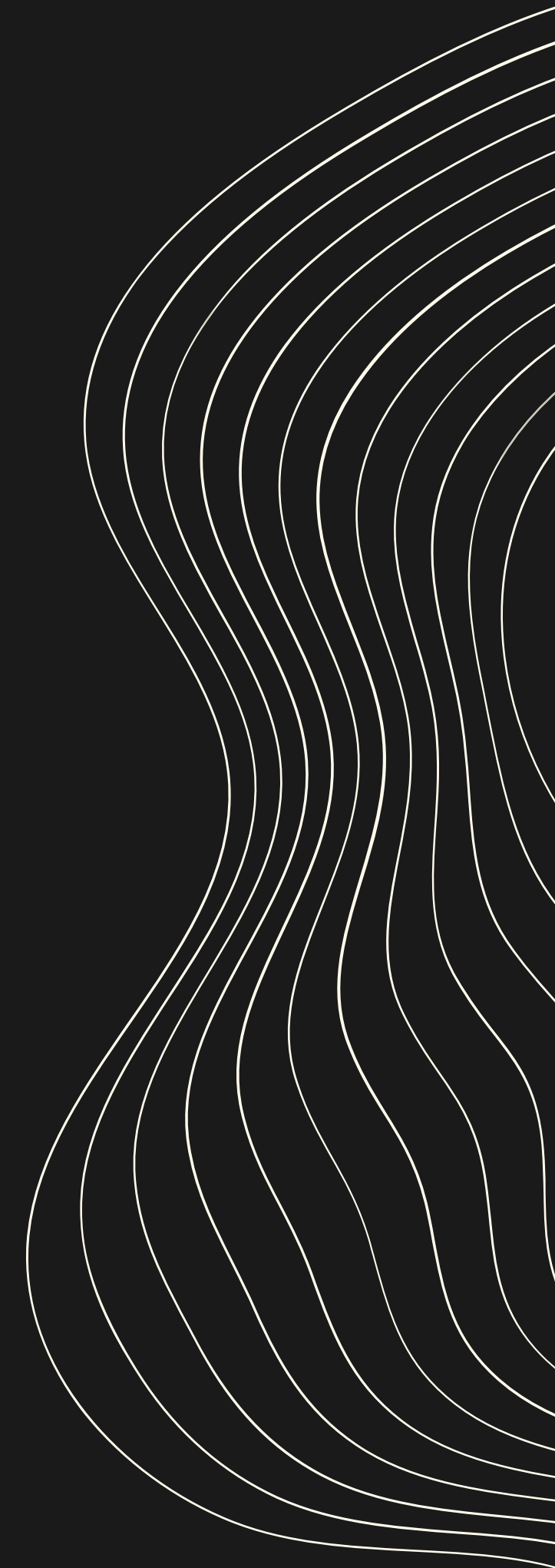
PDF Document

API call with
Embeddings

Init Chainlit
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Vector
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Render
results in
App





DOCUMENT UPLOADER DEMO

FINANCIAL DASHBOARD

Lets build a LLM powered financial dashboard that pulls in data from Kucoin API and visualize the data.



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STEP 1

FINANCIAL DASHBOARD

Lets build a LLM powered financial dashboard that pulls in data from Kucoin API and visualize the data.



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STEP 1

Generate candle plots,
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present the data.

STEP 2

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STEP 1

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STEP 2

Use OpenAI to generate text commentary on ticker symbols. Then use a llm agent to query the data.

STEP 3



LLM FINANCIAL DASHBOARD DEMO

CONCLUSION

- *Open source tools allow for rapid development and prototyping.*
- *Bringing these tools to production can have it challenges.*
- *Iterate and refine requirements.*
- *Q/A*



VECTOR EMBEDDINGS



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Proin odio odio.



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