



DeepLearning.AI

# Fast Prototyping of GenAI Apps with Streamlit

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## Module 1: Introduction to Prototyping Gen AI Applications

# Course Overview

- ✓ How GenAI tools can speed up your app development process
- ✓ Build real apps that respond to user input
- ✓ Generate Python code on the fly
- ✓ Use design principles like MVP and MAP to stay focused on what matters

## Module 1:

Build a basic GenAI interface



Prompt for Python code



Run in Streamlit



Share working prototype

# Build Fast with the Tools You Have

- Large language models



Claude

Gemini

- Lightweight app frameworks



Streamlit



gradio



- Prompt engineering techniques + basic RAG

\*Basic knowledge of SQL is helpful but not required



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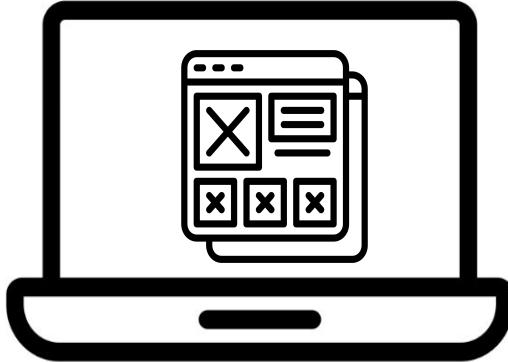
# Fast Prototyping of GenAI Apps with Streamlit

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## The Benefits of Prototyping

# Defining Prototyping for Gen AI

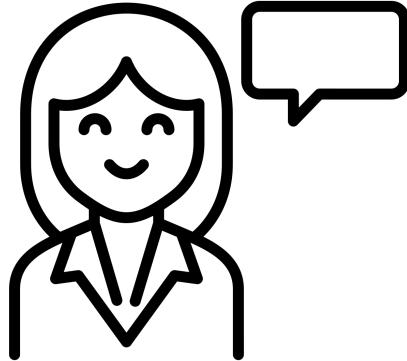
A **prototype** is a quick, lightweight and tangible version of an idea



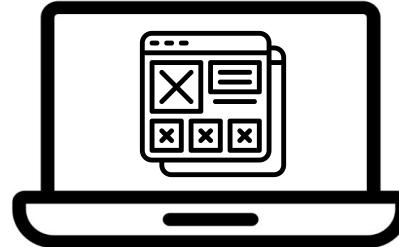
- Built fast
- Not polished or complete
- Meant for testing, not for launch
- Often discarded or heavily modified after evaluation

# When to Prototype

Tell



Show

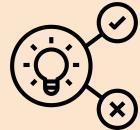


Showing your vision with a **prototype** beats telling people about your idea every time

# When to Prototype



Get feedback early

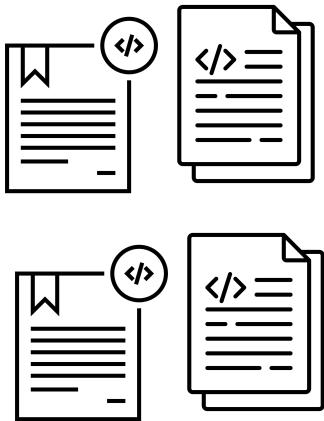


Test risky ideas without building a full product

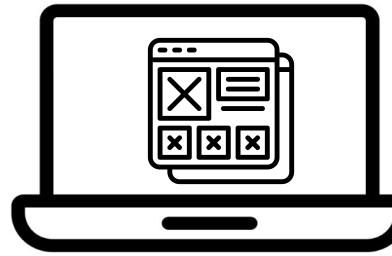


Validate your assumptions using real data and users

# When to Prototype



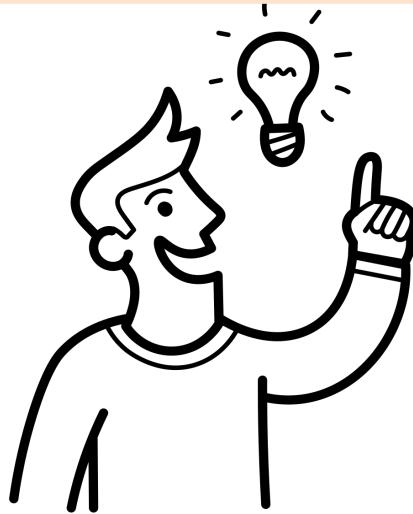
misinterpreted!



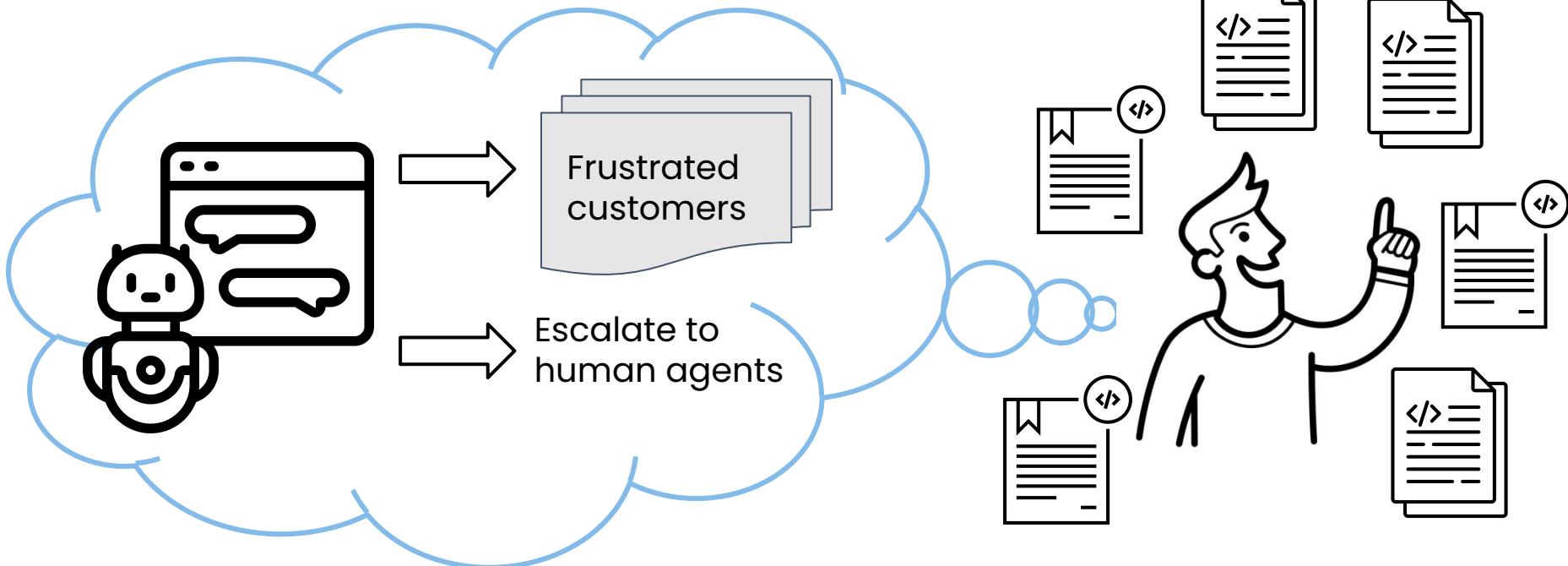
how your tool  
works!

# Why Prototype

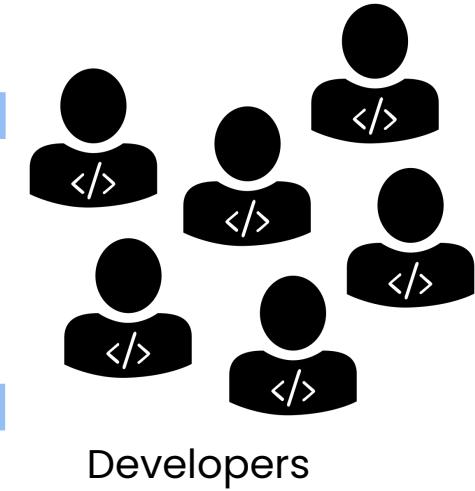
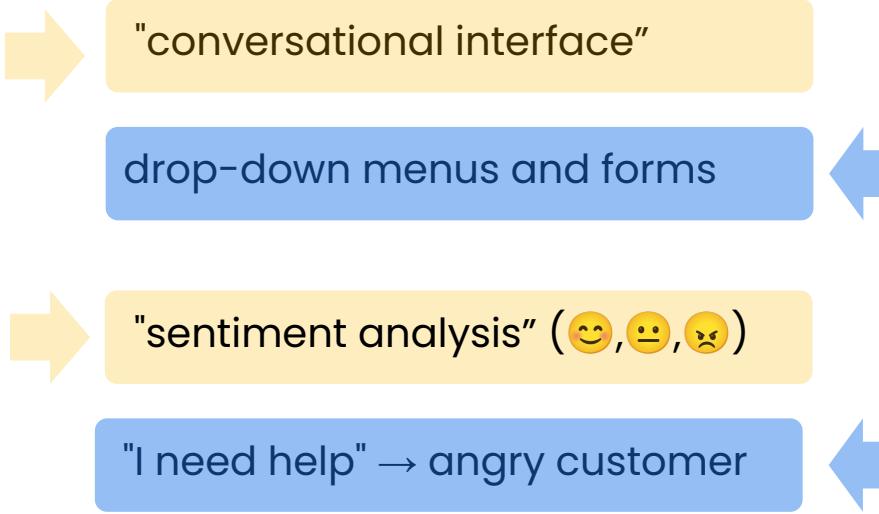
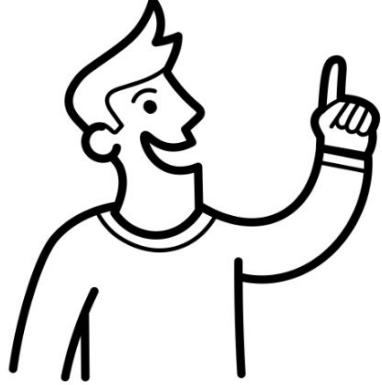
Forbes lists "**failure to prototype**" as one of the top 10 reasons why software projects fail.



# Why Prototype



# Why Prototype



# Why Prototype

**Customer Service Portal**

Please complete all required fields to access our AI chatbot

Step 1 of 4 25% Complete

 **Customer Classification**

Customer Type \*

Select Customer Type

Primary Issue Category \*

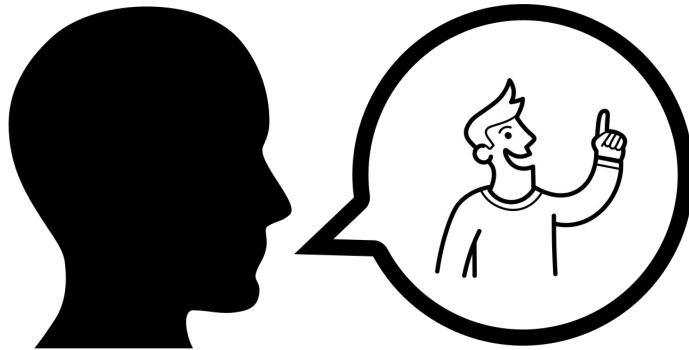
Select Issue Category

[Previous](#) [Next](#)

**Note:** All fields are required to ensure our AI can provide the most personalized and effective customer service experience. This comprehensive intake process helps our sentiment analysis algorithm better understand your needs.

# Why Prototype

"This feels like a step backward from our current support system."

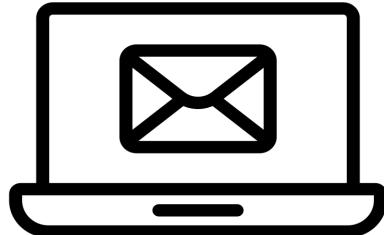


! This project was shelved after six weeks of development time.

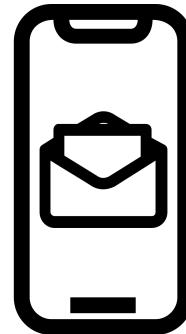
# Building a Prototype

Building a prototype is a proven strategy!

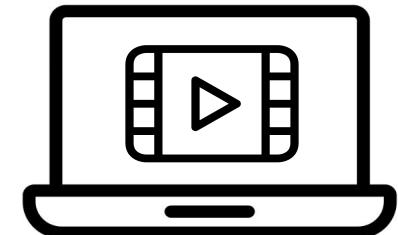
Prototype → Launch → Grow



Landing page



Basic app



Video

# AirBnB



Short-term  
rental



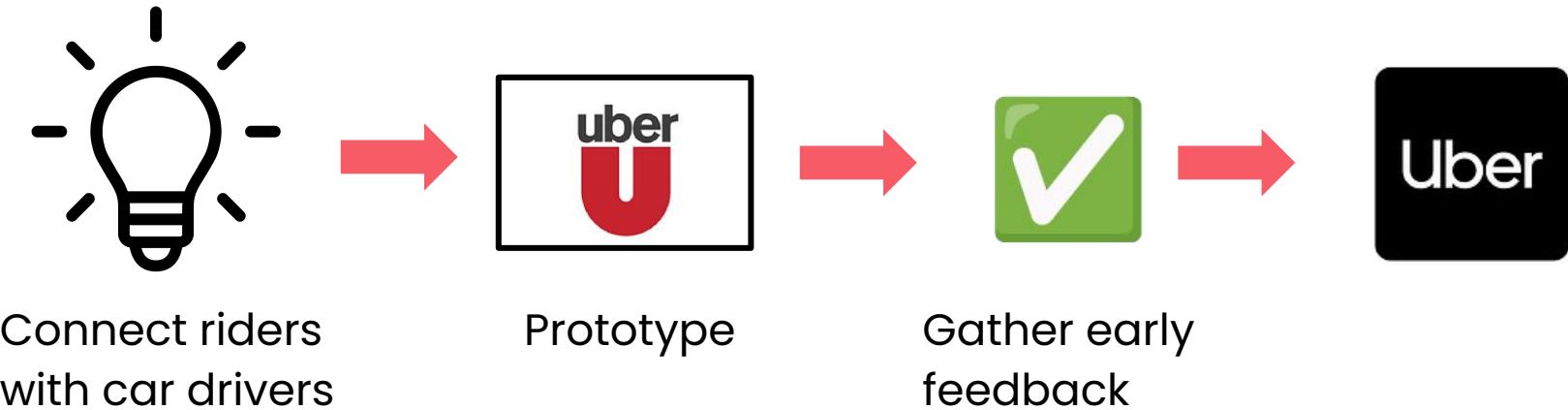
Prototype



Gather early  
feedback



# Uber



# Instagram



Photo sharing with  
basic filters



Prototype



Gather early  
feedback



# Spotify



Music streaming  
experience



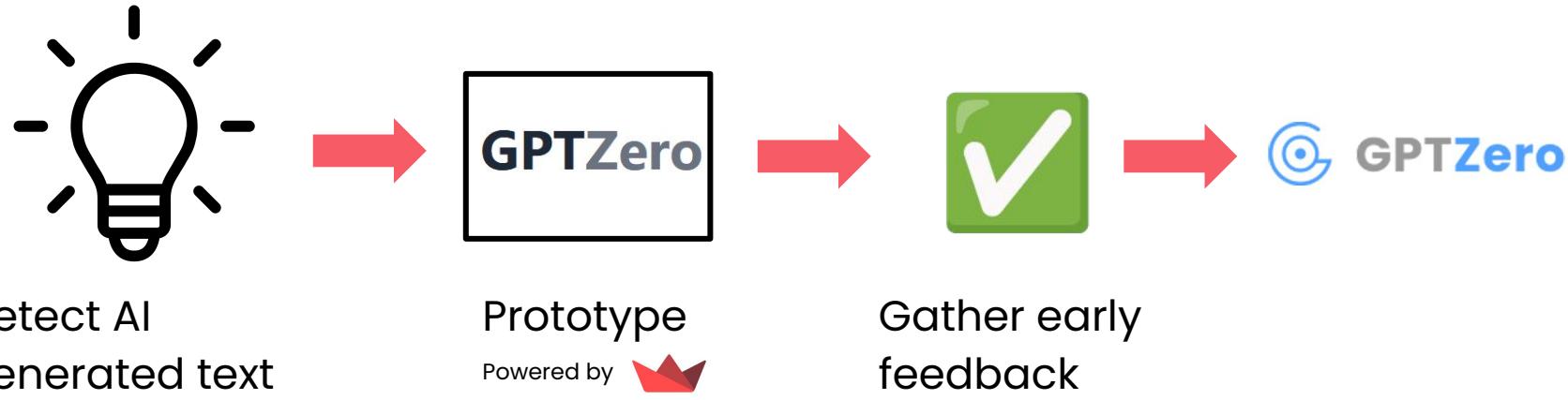
Prototype



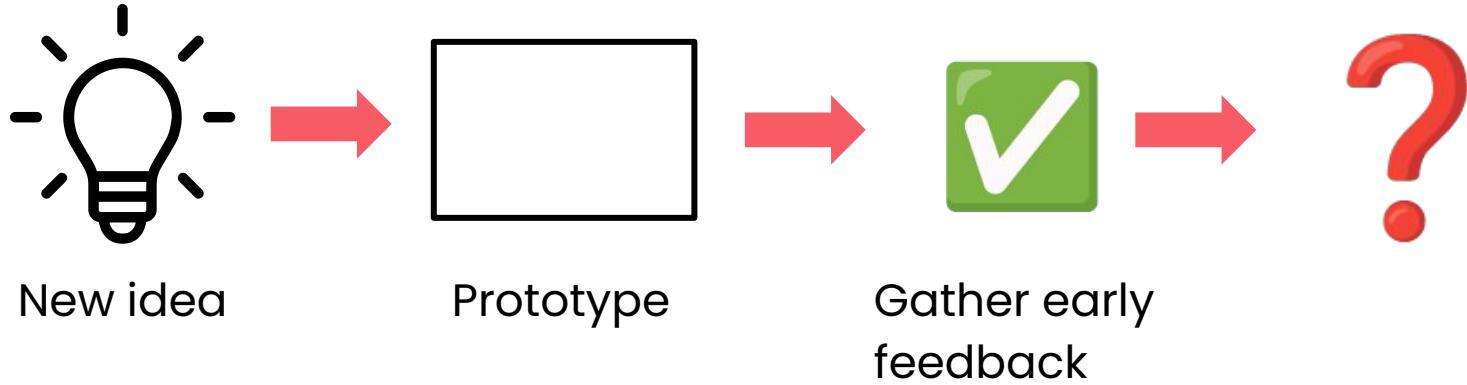
Gather early  
feedback



# GPTZero



# Each Example Follows the Same Pattern





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# Fast Prototyping of GenAI Apps with Streamlit

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How GenAI  
Revolutionized  
Prototyping

# Prototyping Before GenAI

Without GenAI:

 Design the interface

⇒ text box, button, display

 Write code

⇒

- import libraries for sentiment analysis
- clean and load your data

 Connect input to backend logic

 Display the results

 Test, fix errors, and refactor

App that analyzes  
product reviews

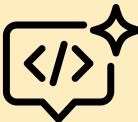


# Prototyping with GenAI

With GenAI:



*"Create a Streamlit app that lets users paste in reviews, run a sentiment analysis and show the results as a pie chart"*



AI writes the code



You click **RUN** →  
and you're already **testing** your idea 

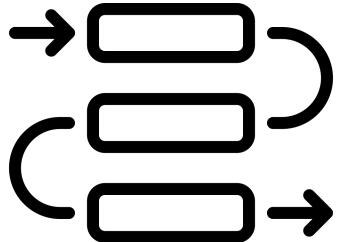
App that analyzes  
product reviews



- ⇒
- import libraries
  - set up the interface
  - run the analysis
  - create the chart

# It's Not About Code, It's About Mindset

Traditional software development



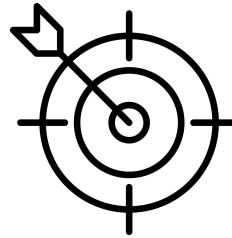
planning first



building second

"How do I build this?"

With GenAI

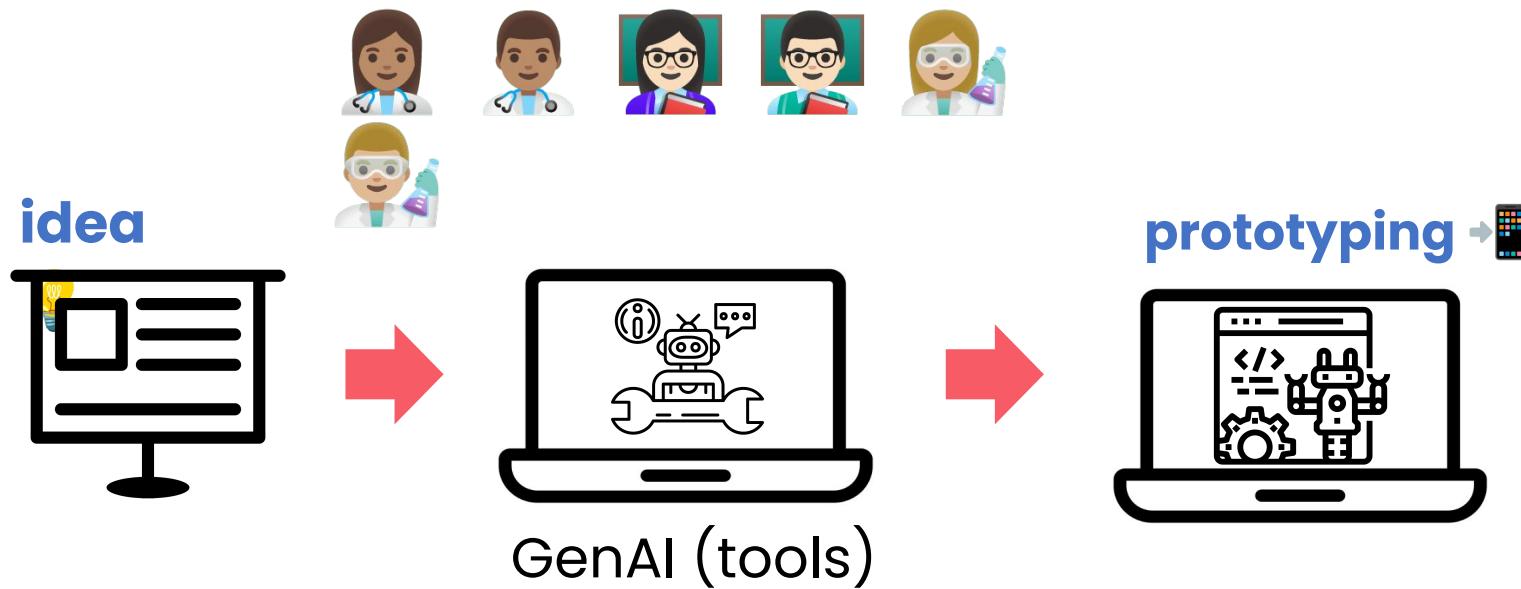


You start with intent

"What's the fastest way to test if this idea even makes sense?"

Shifting you from **solution-first** to **exploration-first**

# Democratizing App Development with Generative AI





GenAI changes the game!



Removing the bottlenecks



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# Fast Prototyping of GenAI Apps with Streamlit

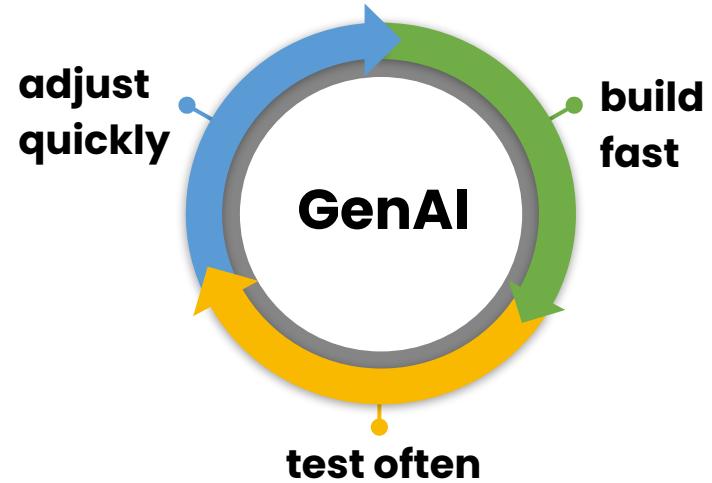
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The Prototyping  
Development Cycle for  
GenAI

# Prototyping with GenAI

GenAI development = **exploration + iteration**

- 🔮 You don't always know what the output will be
- 😱 The GenAI model might surprise you
- 💥 Your prompt might break
- 👤 Users might behave unexpectedly



# Prototyping with GenAI



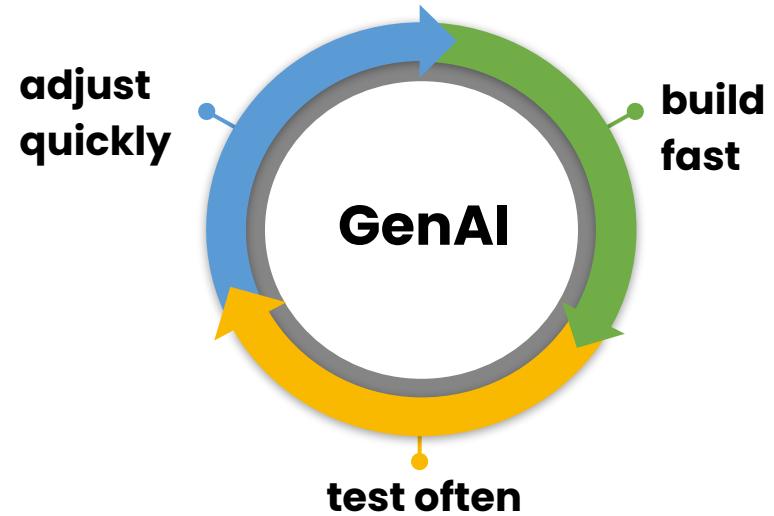
PROTOTYPE



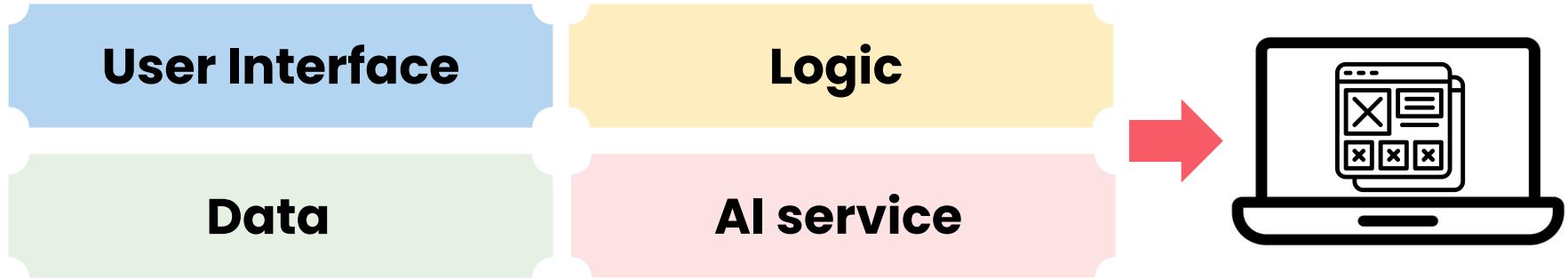
- Explore how a GenAI model behaves with different prompts
- See how users interact with your app
- Catch edge cases early on
- Decide whether your idea is worth building into a full product

# Prototyping with GenAI

Prototyping →  
Default Development Mode



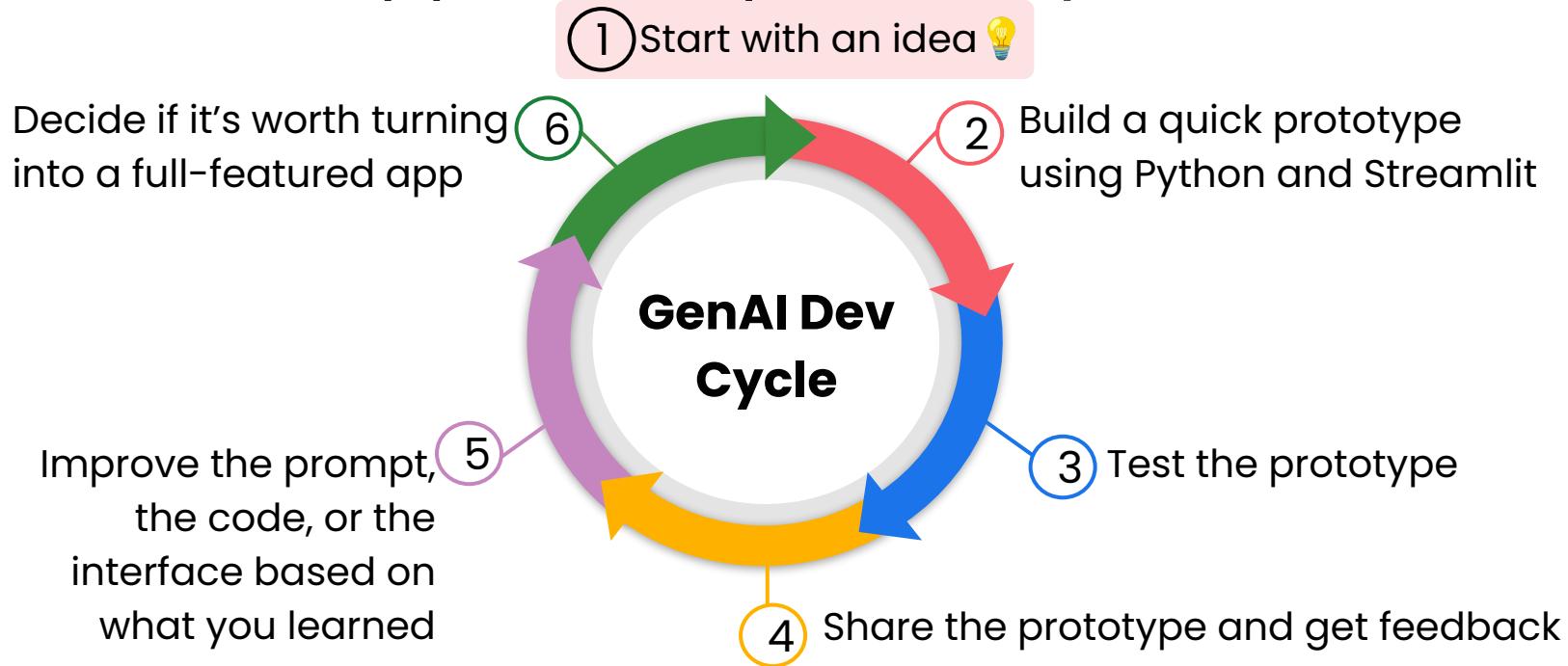
# What a Working Prototype Looks Like



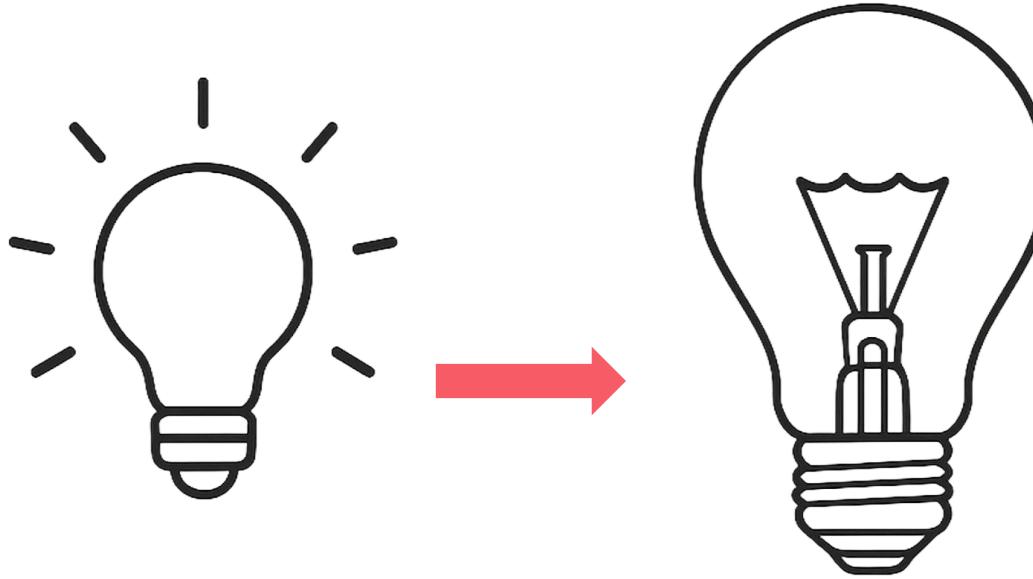
# What a Working Prototype Looks Like



# The GenAI App Development Cycle



# Prototype vs Production-Ready



Prototype

Production-Ready

# Prototype vs Production-Ready

	Prototype	Production-Ready
 <b>Purpose</b>	Testing and learning	Deliver a complete stable product
 <b>Priority</b>	Focus on speed	Focus on architecture and reliability
 <b>Code quality</b>	Code can be messy but functional	Code should be refactored, clean, and maintainable
 <b>Data</b>	Use small or simulated datasets	Real, clean, validated data



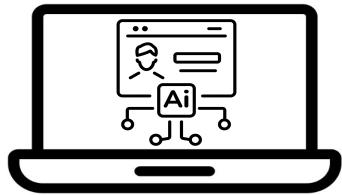
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## Avoiding Common Pitfalls

# Over-engineering

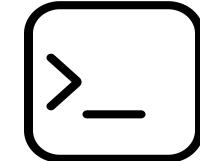


Over-engineering our prototypes



: ask AI to build everything at once

- UI
- Backend
- Database
- Analysis
- Charts



Giant Prompt

- 🚫 Too much code
- 🚫 Pieces do not fit
- 🚫 Debugging chaos
- 🚫 Spending hours untangling the results

# Over-engineering

! Avoid over-engineering prototypes

- ✓ Keep It Simple
- ✓ Try one idea at a time
- ✓ Start with something small

Good prompting example:

- 1st Prompt → Build a login form UI
- 2nd Prompt → Create backend auth logic
- 3rd Prompt → Connect login to backend

GenAI works best when the task is clearly defined

# Getting Stuck in Polishing Mode



"Trying to perfect everything before getting feedback"

Spending way too much time ⏳

- Tweaking prompts
- Redesigning charts
- Debating button colors
- ...



Nobody used the app 🚫

# Getting Stuck in Polishing Mode

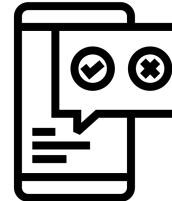
💡 Core idea

(80% of the work)

📥 Gather feedback

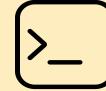
✨ Polish

(20% of the work)



# Optimizing Without Validating

 Vacation Ideas App



Very long long prompts...



Do people even like the recommendations?



"Do users find this helpful?" or  
"Did they actually take action?"

# Building Without a Plan To Scale

The AI code might be:

- Messy 
- Undocumented 
- Hard to follow 

Time to **share your work**:

- Add comments
- Stick to simple file names and folder structures
- Use tools your team already knows
- Use GenAI to write some quick test cases

# Trusting AI Output Without Verifying



Don't just hit "run" and hope for the best



Test your prompts

- Reword prompts
- Make prompts simpler
- More clear instructions
- Small tweaks → change the results

# Trusting AI Output Without Verifying

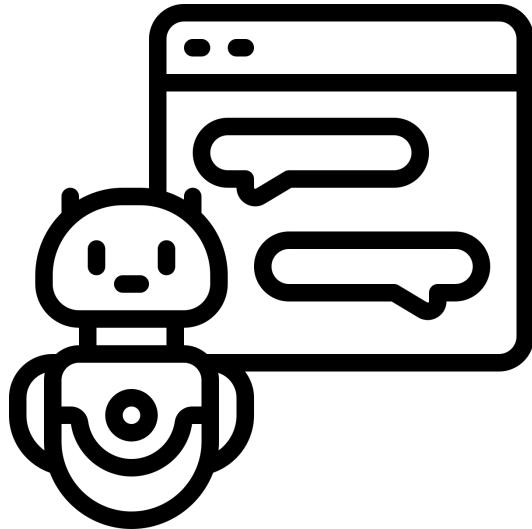
Check the output

- Run a few edge cases
- Check if the AI output actually makes sense
- Ask someone else to try it
- Log your inputs/outputs

-  Fix what is broken
-  Test again

Is this idea worth building?

# Challenges in GenAI-driven Prototypes



- Be specific in your prompts
- Use a small dataset when testing
- Read the AI's code before running it
- Use version control so you can undo mistakes
- Don't expect the same result every time — GenAI isn't always consistent



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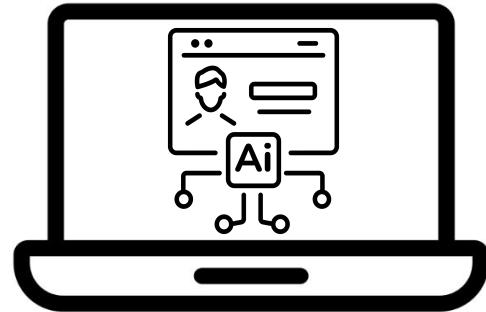
## Introducing the Course Project and Dataset

# Introducing the Final Project



You'll build a real working app powered by GenAI!

- Plots the average sentiment scores by product and delivery status
- Analyzes customer sentiment
- Lets users ask natural language questions about the data



*Can GenAI help our team understand customer feedback faster?*

# What You'll Actually Do

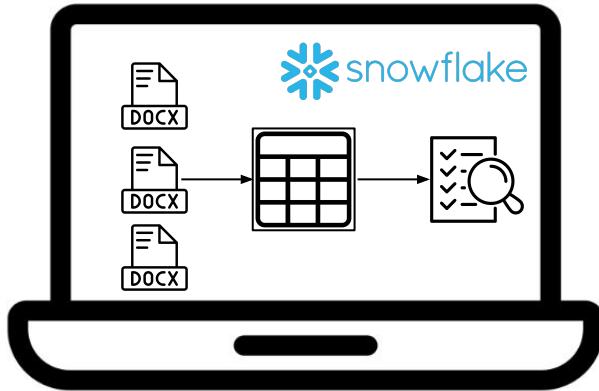
## Phase 1 – Build with Streamlit



- Load and clean your dataset
- Build a simple interactive interface
- Visualize results with charts and filters
- Publish your first prototype online

# What You'll Actually Do

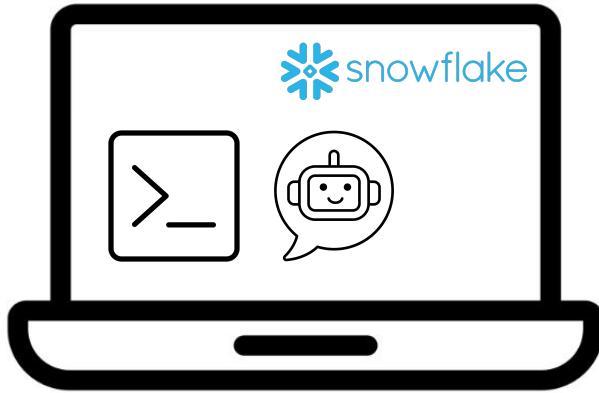
## Phase 2 – Move to Snowflake



- Upload raw DOCX files
- Ingest and store in a structured format
- Use Snowflake's built-in AI tools to analyze
- Deploy your fully functional app complete with a chatbot

# What You'll Actually Do

## Phase 3



- Connect your chatbot to the data
- Add prompt engineering and RAG to improve responses
- Learn techniques for getting feedback, fast

# Introducing the Avalanche Dataset

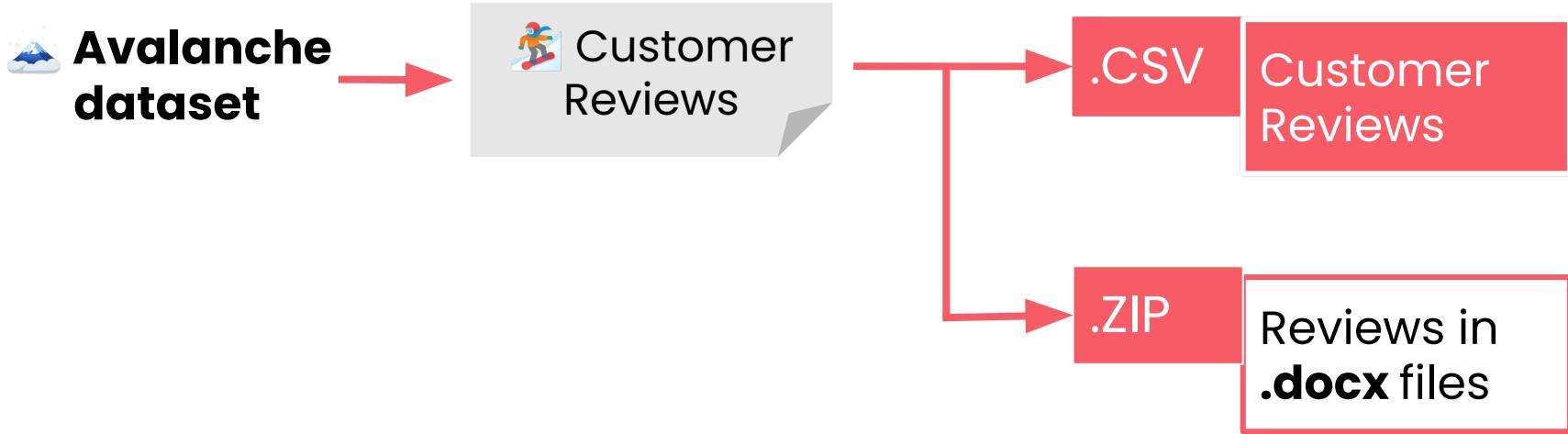


## Avalanche dataset

→ customer\_reviews.csv

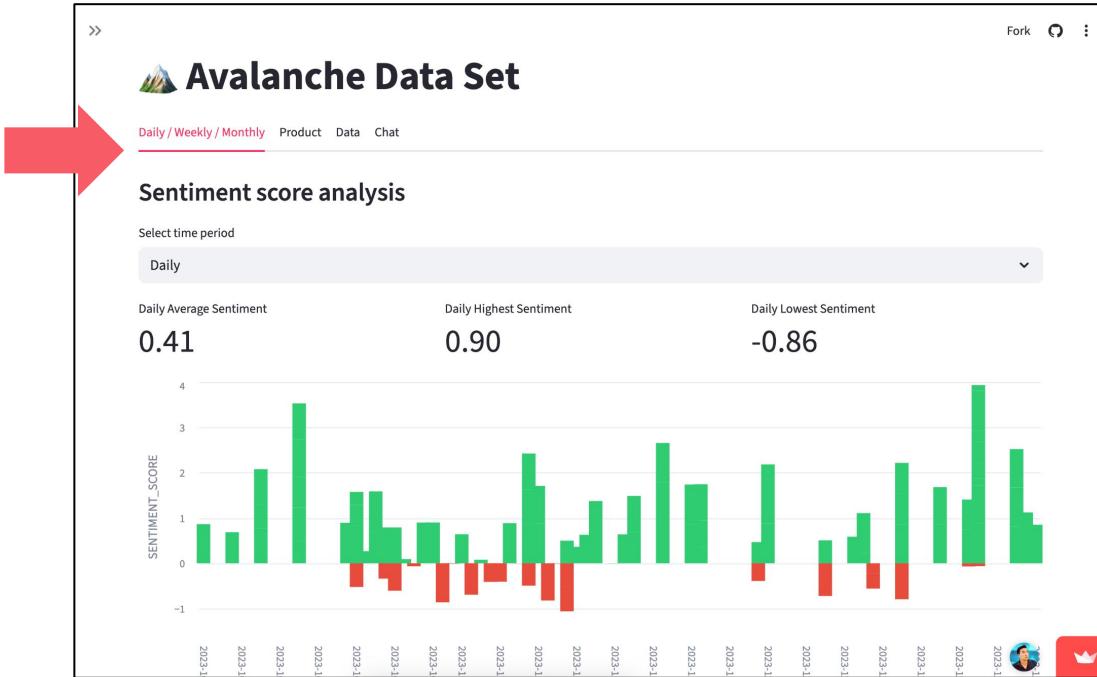
PRODUCT	DATE	SUMMARY	SENTIMENT_SCORE
Alpine Skis	2023-10-30	The skis have durability issues, with edges delaminating after ten days and excessive topsheet wear, compromising performance and structural integrity. The manufacturer's warranty response has been unsatisfactory.	-0.86290675
Thermal Gloves	2023-11-10	The waterproof gloves suffered from major failures after three days of use, with water penetrating through the shell and causing hands to get soaked during a mild snowfall. The leather treatment and dye quality were inconsistent, leading to color transfer onto other equipment and potential staining. Additionally, there were issues with inconsistent stitching and sizing between the left and right gloves. The premium price point of \$150 was not justified due to these significant quality control issues.	-0.8224165
Insulated Jacket	2023-12-09	The insulated jacket was purchased for winter activities like snowshoeing and skiing, but its breathability was inadequate during sustained aerobic efforts, causing rapid overheating and discomfort. The jacket trapped moisture and heat, leading to potential safety issues and decreased performance. It was unsuitable for strenuous winter sports.	-0.7224479
Mountain Series Helmet	2023-11-02	The received garment was significantly smaller than expected, causing frustration due to size discrepancies between the published size chart and the actual product. The return process was complicated by glitches in the online portal and unresponsive customer service, who initially required the customer to pay for return shipping despite the sizing error being the company's fault. Despite promising features and high-quality materials, the garment's performance and durability couldn't be evaluated due to the sizing issues. The overall experience was disappointing for a premium brand.	-0.69523174

# Introducing the Avalanche Dataset



# What You'll Build

<https://avalanche.streamlit.app/>





# Avalanche Data Set

Daily / Weekly / Monthly   Product   Data   [Chat](#)

## Chatbot with Cortex Search and Unstructured Data

Are there any goggles review?



Which product has the most negative reviews?



I don't know the answer to that question. The provided context does not specify the product names or the sentiment of the reviews.





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# Fast Prototyping of GenAI Apps with Streamlit

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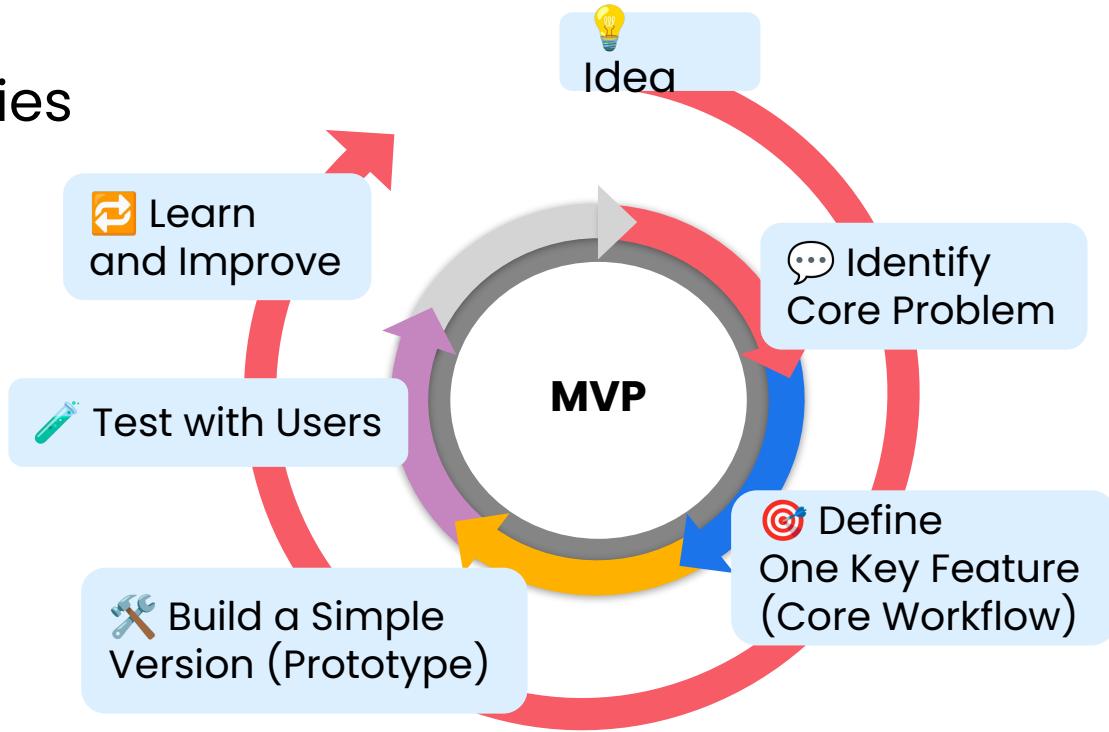
## Scoping an MVP

# Minimum Viable Product (MVP)

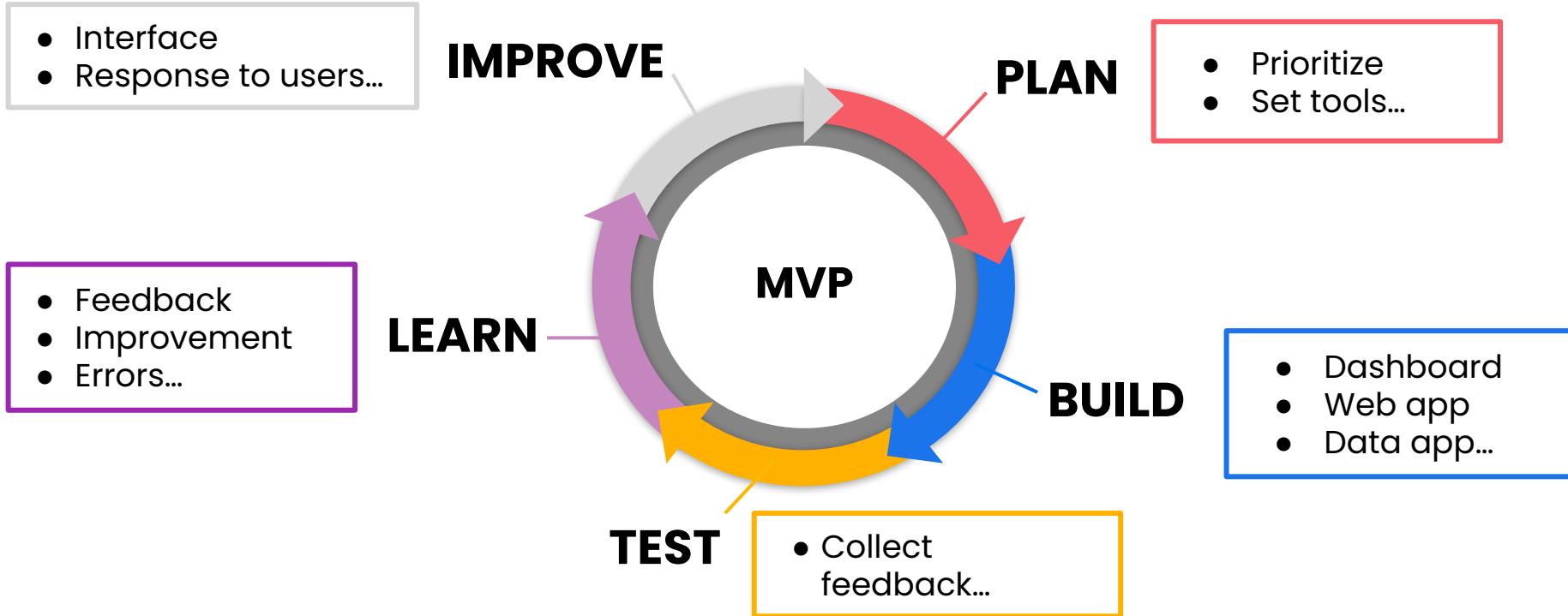


Lean Startup by Eric Ries

## MVP Framework



# Minimum Viable Product (MVP)



# MAP Framework

**M**ission



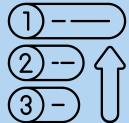
What's your end goal?

**A**udience



Who are you building for?

**P**riorities

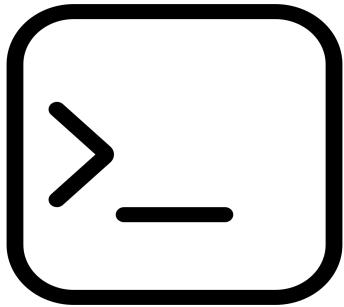


What's the one thing it  
needs to do first?

# M for Mission



What problem are you trying to solve?



~~"I want to build an AI chatbot"~~ X

"Customer service agents spend 20 minutes per call looking up product information, and I want to reduce that to 2 minutes"

Your end goal should be concrete and measurable!

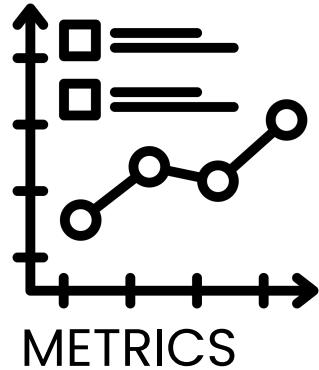
# M for Mission



How will you know if your app solved the problem?

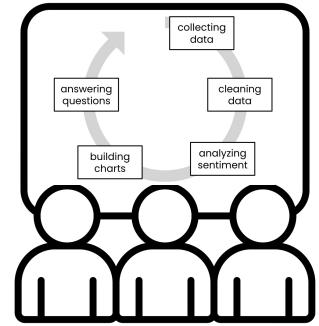


When is  
it solved?



data  
scientists

BEFORE → 5 hours



NOW → 30 min

# A for Audience



Who are you building for?

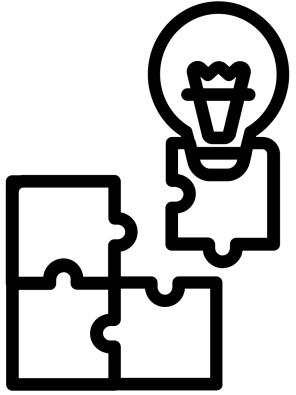


“Identify your primary user group”

- Are they technical experts or complete beginners?
- What's their biggest frustration with existing solutions?
- What workarounds do they currently use?
- How do they measure success in their role?

# P for Priority

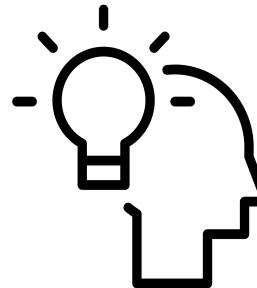
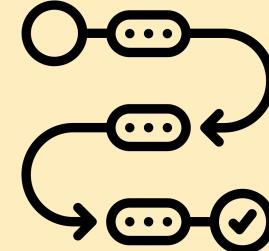
Many ideas for features...



→ absolutely necessary !

→ what can wait ⏳

**Focus on one core workflow**



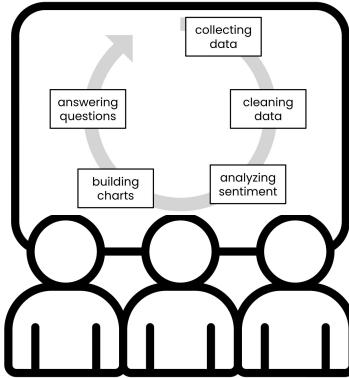
If I could only build one feature to show the value of this app, what would it be?

# Avalanche Mission



What problem are you solving—and how will you know that it's solved?

- ✗ Same sentiment analysis workflows
- ✗ Manually digging through customer reviews



- ✓ Automate the setup
- ✓ Make it **easy** to get quick answers directly from the dataset

"Did this save you time?"



→ You're on the right track

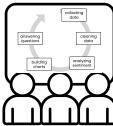


# Avalanche Audience

① The manager

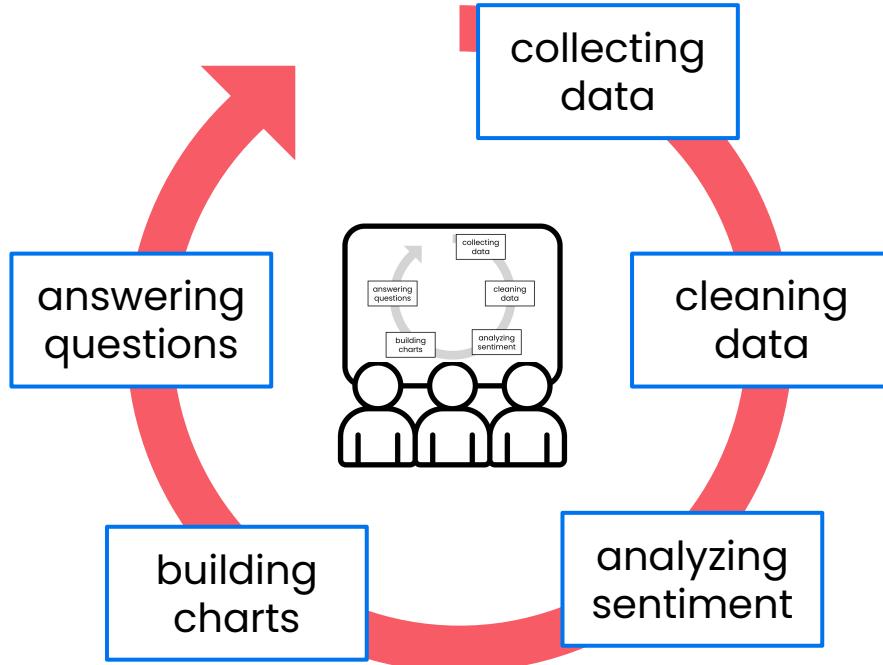


② Your teammates



- Every time they do sentiment analysis (😊, 😐, 😞),
- They have to rebuild the process from scratch

# Avalanche Audience



You build something  
people will actually use!

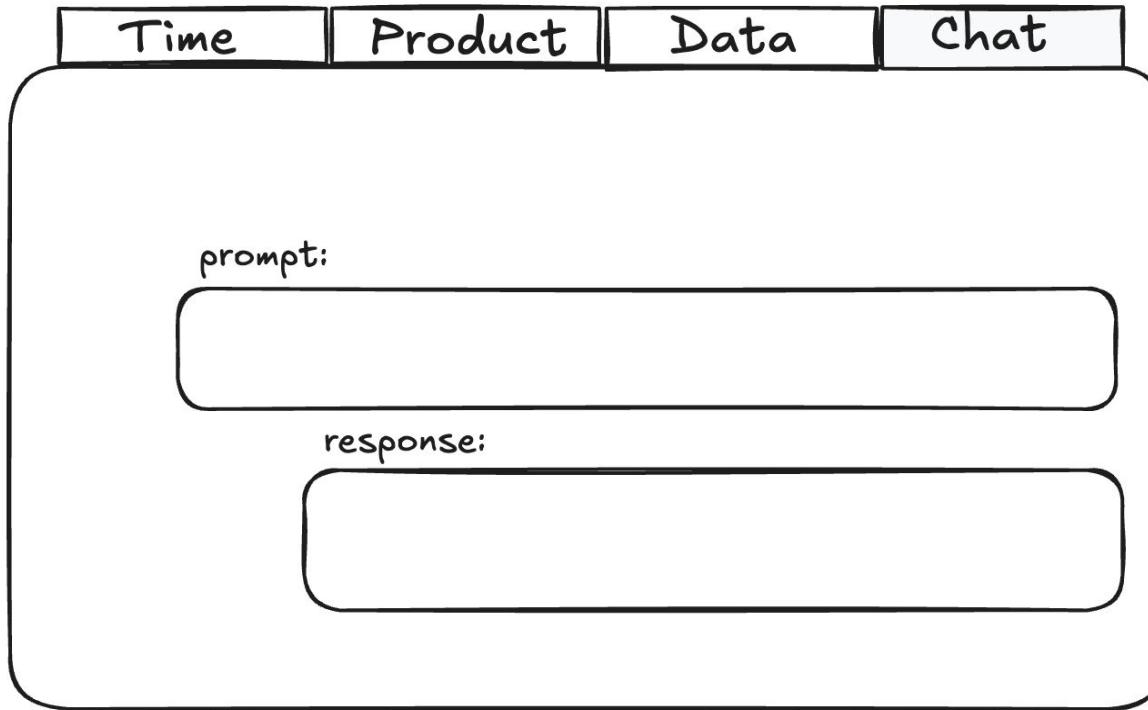
# Prioritizing Features for the Avalanche Project



**Avalanche  
dataset**

If you could only build one feature, what feature would be the most critical to test if your idea works?

# Prioritizing Features for the Avalanche Project



# Prioritize What to Build



## Must Have

- Cleaning the dataset
- Running sentiment analysis
- Visualize data
- AI chatbot
- Deploy



## Nice to Have

- Upload dataset
- Showing the raw data table



## Next Version

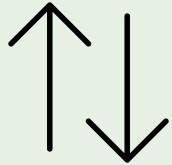
- Printing results

# Build Your Plan



## Must Have

Cleaning the dataset  
Running sentiment analysis  
Visualize data  
AI chatbot  
Deploy



## Nice to Have

Upload dataset  
Showing the raw data table



## Next Version

Print a result





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# Fast Prototyping of GenAI Apps with Streamlit

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Overview of the Course  
Github Repo

<https://github.com/deeplearning-ai/fast-prototyping-of-genai-apps-with-streamlit>



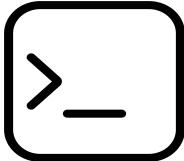
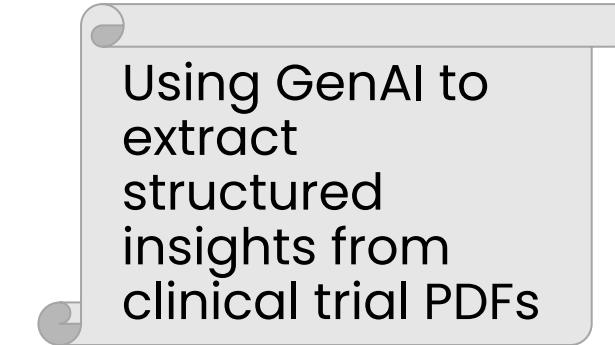
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# Fast Prototyping of GenAI Apps with Streamlit

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## Lab 1: Co-creating an MVP Plan with GenAI

# The Challenge



"Act as a product manager. Help me define an MVP for an app that extracts data from clinical trial PDFs."

# The MVP Planning Process



What's your end goal?



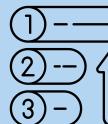
Reduce the time her team spends on **manually extracting data** from messy clinical trial reports.



Who are you building for?



What does “a working app” look like?



Prioritized features

# The MVP Planning Process



What's your end goal?



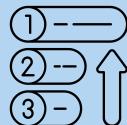
Who are you building for?



Clinical operations staff –  
non-technical users



What does “a working  
app” look like?



Prioritized features

# The MVP Planning Process



What's your end goal?



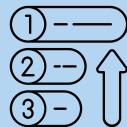
Who are you building for?



What does “a working app” look like?



Metric →  
“did this save you time?”



Prioritized features

# The MVP Planning Process



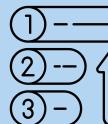
What's your end goal?



Who are you building for?



What does “a working app” look like?



Prioritized features

- Drag-and-drop PDF upload
- LLM pipeline to extract and clean the data
- Editable table of results
- Export to CSV

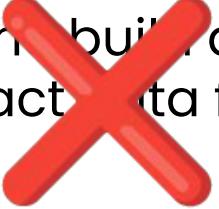


# How to Work with GenAI More Effectively

A few more tips from GenAI to build a better prompt:

## ✓ Be Specific

"Help me build an app  
to extract data from  
PDFs"



"I'm building a GenAI assistant to automate the process of extracting data from clinical trial PDFs to extract insights from the data they contain. What core features should the MVP include?"

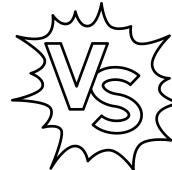
# How to Work with GenAI More Effectively

A few more tips from GenAI to build a better prompt:

## ✓ Provide context



"I'm an ML engineer  
building  
an internal tool"



"I'm a student  
building  
a school demo"



# How to Work with GenAI More Effectively

A few more tips from GenAI to build a better prompt:

## Specify Format

- Summarize this as bullet points.
- Generate a step-by-step plan.
- Create a table of MVP vs stretch goals.

# How to Work with GenAI More Effectively

A few more tips from GenAI to build a better prompt:

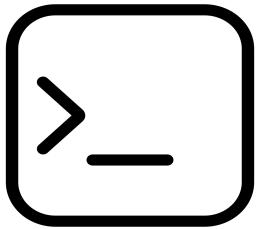
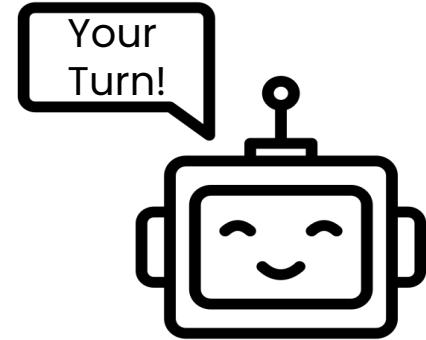
- ✓ Give the AI a Role 😊🥳

“Help me scope my app”



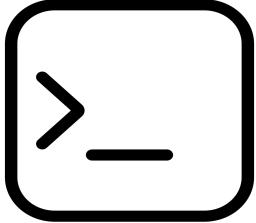
“**Act as** a product manager for an ML team building a GenAI prototype”

# Your Task: Define Your MVP with GenAI



"I'm new at using GenAI for prototyping. Help me plan an MVP for a Streamlit app that loads a CSV, performs sentiment analysis using OpenAI, shows a bar chart of the results, and lets users filter by product"

# Improving the Prompt



***Act as a product manager. Help me define an MVP for a GenAI app.***

*Use these principles:*

- Define the end goal
- Identify the audience
- Choose success metrics
- Prioritize core features

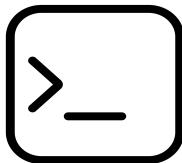
*Then walk me through each step:*

- What problem are you solving?
- Who are you solving it for?
- What would success look like?
- What are the must-have features?

# Build a Plan

MVP  
✓

Defined



Now, that we used the principles before,  
**help me organize the features into:**

- Must-Have
- Nice-to-Have
- Next Version

✓ **Must Have**

✨ **Nice to Have**

🚀 **Next Version**

# Remember...



## GenAI is great at

- Creating tedious setup code
- Brainstorming features
- Writing queries
- Recommending architecture
- Planning and debugging



## Humans are needed for

- Picking the right problem
- Making UX decisions
- Applying business logic and
- Validating AI outputs

# Assignment: Plan Your MVP



1. Write a 1–2 sentence description of your GenAI app idea.
2. Use your favorite GenAI tool (e.g., ChatGPT, Claude, or Gemini).
3. Copy/paste the structured prompt shown above.
4. Ask for help defining your MVP.

# Assignment: Plan Your MVP



5. Categorize your features as either (Must-Have, Nice-to-Have, Next Version).
6. Stretch goal: Ask the AI to run a quick competitive analysis.
7. Document your plan as a 1-page summary.

# Lesson 2

## Getting Started with Streamlit



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## Choosing the Right Tools

# You Don't Need a Full Stack

You don't need to: 

- Spin up a backend
- Configure a database
- Set up hosting



To test an idea!

Build a working prototype with: 

- Python
- A lightweight UI library
- Access to a GenAI model

# Comparing UI Frameworks

```
MyApp.py
```

```
import streamlit as st
import pandas as pd

st.write("""
# My first app
Hello *world!*
""")

df = pd.read_csv("my_data.csv")
st.line_chart(df)
```

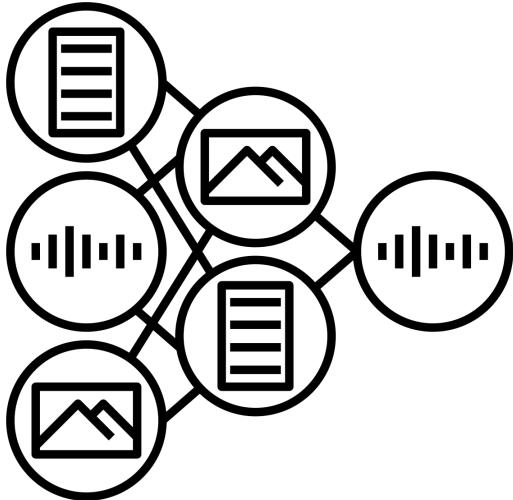
<div style="position: absolute; top: 0; left

# Comparing UI Frameworks

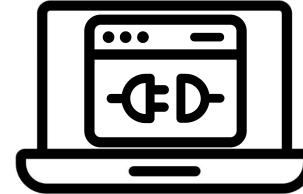
Feature	Streamlit	Gradio	Dash
<b>Speed to Prototype</b>	⚡⚡⚡ (Fastest)	⚡⚡ (Fast)	⚡ (Slower)
<b>Ease of Use</b>	✓✓✓ (Easiest)	✓✓ (Easy)	✓ (More Complex)
<b>Web Dev Knowledge?</b>	No (Pure Python)	No (Mostly Python)	Yes (HTML/CSS helps)

# GenAI Models You Can Use

🚫 You don't need to train  
your own models from scratch

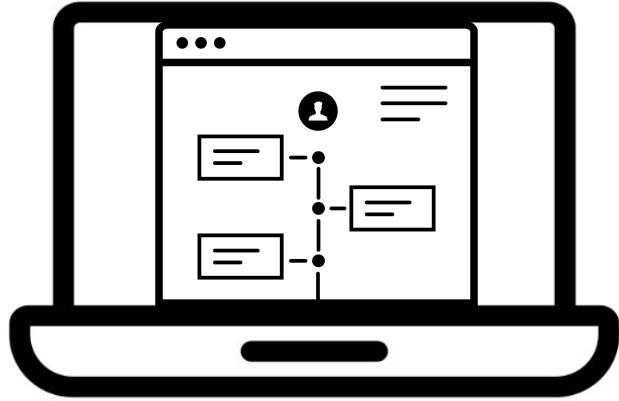


✓ Use Pre-Trained Models via APIs



- GPT-4
- Claude
- Google Gemini
- Open-source models

# What Does a Minimal GenAI Stack Look Like?



- Python
- Streamlit
- CSV or text file (dataset)
- GenAI API
- .env file or secrets manager



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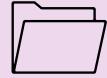
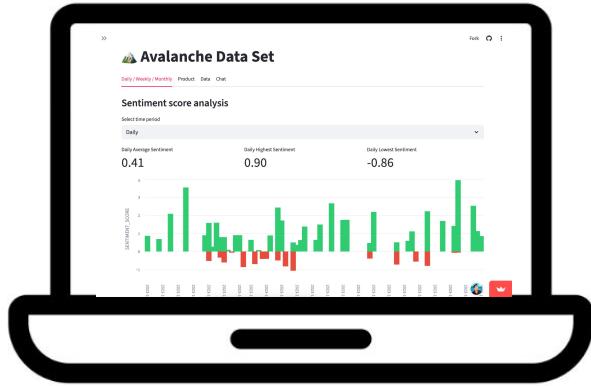
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## Setting up Your Environment

# Recommended Project Structure

```
📁 genai-prototype/
  └ streamlit_app.py          # Main UI and logic
  └ data/
    └ customer_reviews.csv    # Example input dataset
  └ .env                        # Stores your API key
  └ requirements.txt           # Dependencies
```

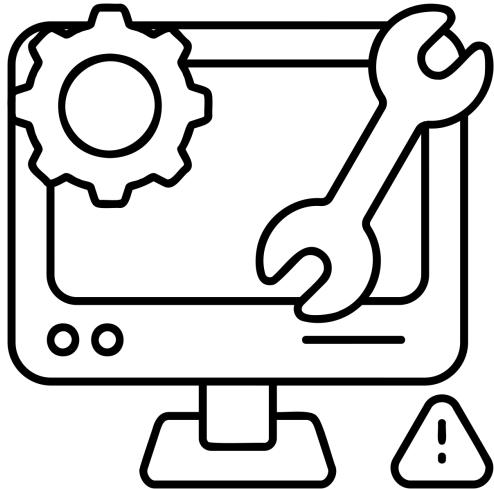
# Setting Up Your Environment



M1/Lesson\_02

M1L2V2\_starting.py  
M1L2V2.py

# Troubleshooting API Calls



- API Key Errors 🔑
- Model Name Issues 🤖
- Surprise Charges 💰
- Debugging AI Output 🧠
- Version Control 🦀



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## Getting Started with Streamlit



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Making Your  
First Interactive  
Streamlit App

# Widgets

The image shows a side-by-side comparison of a Streamlit application's source code and its execution. On the left, a dark-themed code editor window titled "MyApp.py" displays the following Python code:

```
1 import streamlit as st
2 import mymodel as m
3
4 st.write("""
5 # Sales model
6 Below are our sales predictions
7 for this customer.
8 """)
```

On the right, a light-themed Streamlit application window titled "My App - Streamlit" shows the rendered output of the code. The title bar includes a three-dot menu icon. The main content area features a bold heading "Sales model" followed by the text "Below are our sales predictions for this customer." A three-dot menu icon is also present in the top right corner of the Streamlit window.

# Widgets

st.text\_input()

Movie title  
Life of Brian

st.selectbox()

Pick one  
cats  
dogs

st.checkbox()

Rebuild model each time

st.button()

Click me

st.slider()

Dominant color in image  
red blue  
violet

st.file\_uploader()

Choose a CSV file  
Drag and drop file here  
Limit 200MB per file  
Browse files

st.spinner()



<https://docs.streamlit.io/develop/api-reference/widgets>

# Lesson 3

## Advanced Streamlit



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## Integrating GenAI for Data Handling



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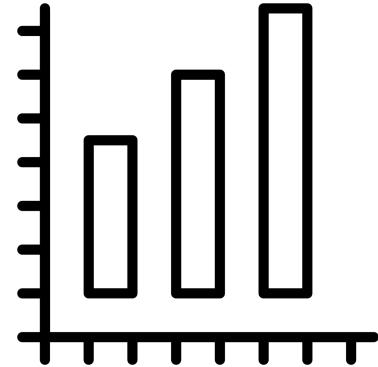
## Data Visualization

# Streamlit Built-In Functions



```
# Streamlit built-in function  
st.bar_chart(df["SENTIMENT_SCORE"])
```

```
# Streamlit - ready to go  
st.line_chart(),  
st.area_chart(),  
st.scatter_chart()
```



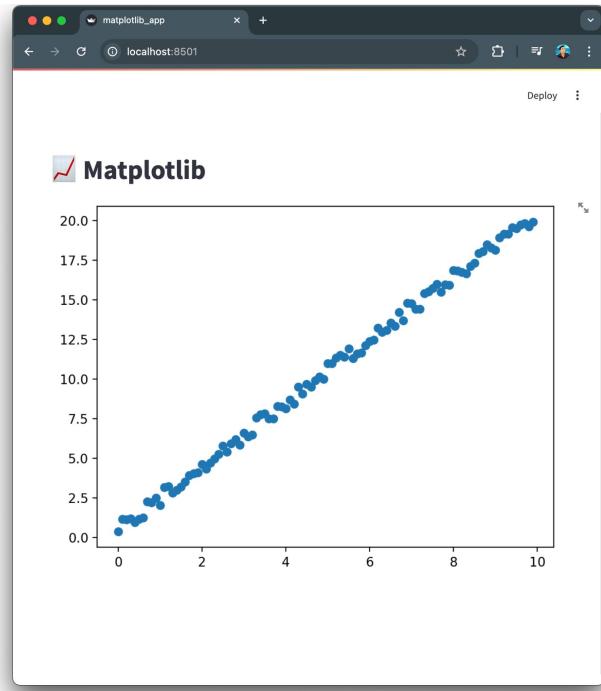
# Streamlit Built-In Functions

```
# Streamlit built-in function  
df.groupby("PRODUCT")["SENTIMENT"].mean()
```

 pandas → groupby

# Static Plots with Matplotlib

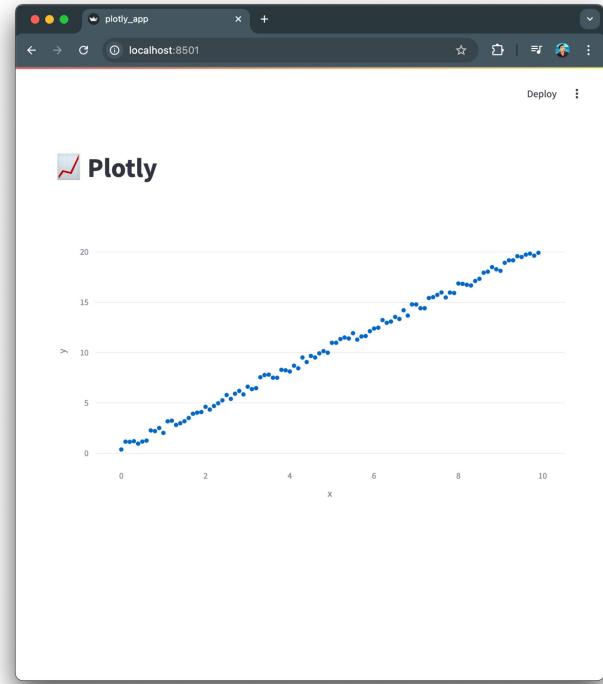
```
fig, ax = plt.subplots(figsize=(10, 6))
ax.hist(filtered_df[ "SENTIMENT_SCORE" ],
         bins=10, edgecolor='black', alpha=0.7)
ax.set_xlabel('Sentiment Score')
ax.set_ylabel('Frequency')
ax.set_title('Distribution of Sentiment Scores')
st.pyplot(fig)
```



# Interactive Visuals with Plotly

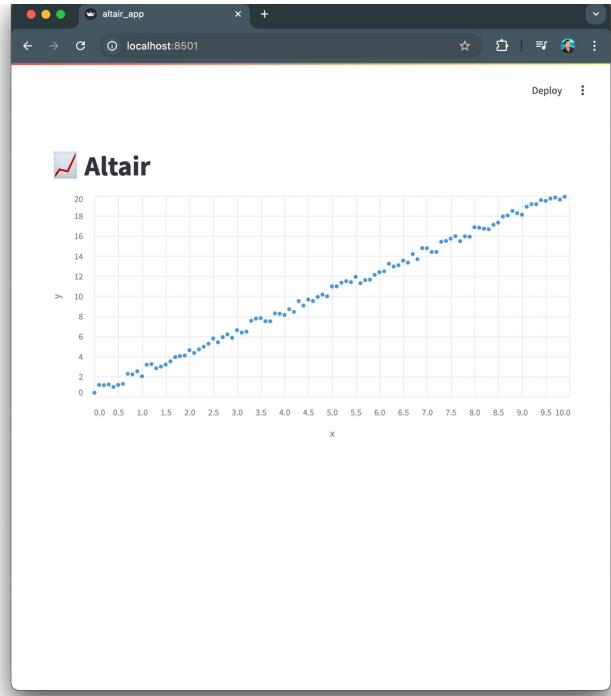


```
fig = px.histogram(  
    filtered_df,  
    x="SENTIMENT_SCORE",  
    nbins=10,  
    title="Distribution of Sentiment Scores",  
    labels={"SENTIMENT_SCORE": "Sentiment Score",  
            "count": "Frequency"}  
)  
  
fig.update_layout(  
    xaxis_title="Sentiment Score",  
    yaxis_title="Frequency",  
    showlegend=False  
)  
  
st.plotly_chart(fig, use_container_width=True)
```



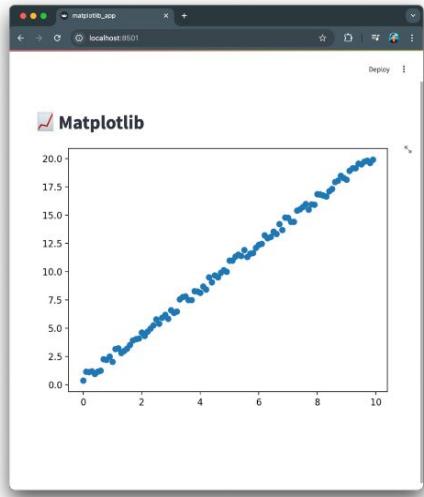
# Altair for Decorative Flair

```
chart = alt.Chart(filtered_df).mark_bar().add_selection(  
    alt.selection_interval())  
    .encode(  
        alt.X("SENTIMENT_SCORE:Q", bin=alt.Bin(maxbins=10),  
title="Sentiment Score"),  
        alt.Y("count():Q", title="Frequency"),  
        tooltip=["count():Q"]  
    ).properties(  
        width=600,  
        height=400,  
        title="Distribution of Sentiment Scores"  
    )  
st.altair_chart(chart, use_container_width=True)
```

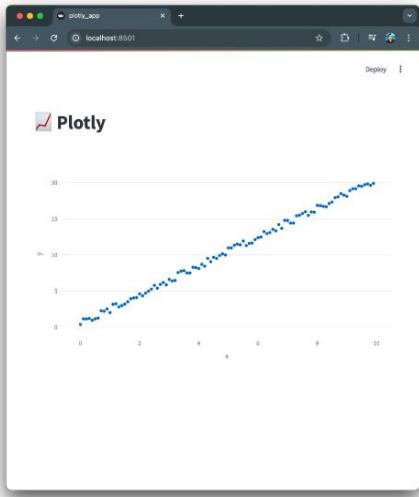


# Use the Right Tool for the Job

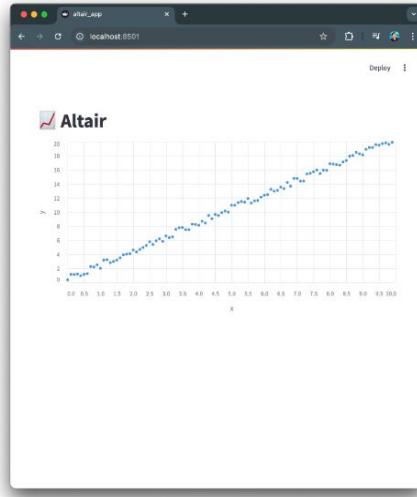
Tool	Best For	Notes
<b>Streamlit</b> st.bar_chart()	Quick feedback	Super fast
<b>Matplotlib</b>	Static plots	Simple and classic
<b>Plotly</b>	Exploring data	Interactive
<b>Altair</b>	More advanced visualizations	Excellent with tidy data



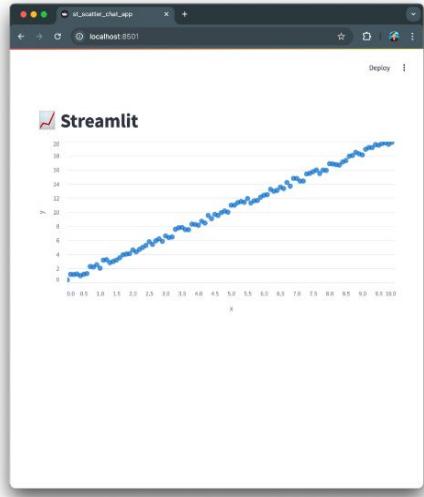
```
st.pyplot()
```



```
st.plotly_chart()
```



```
st.altair_chart  
(chart,  
use_container_width=  
True)
```



```
st.scatter_chart(df)
```



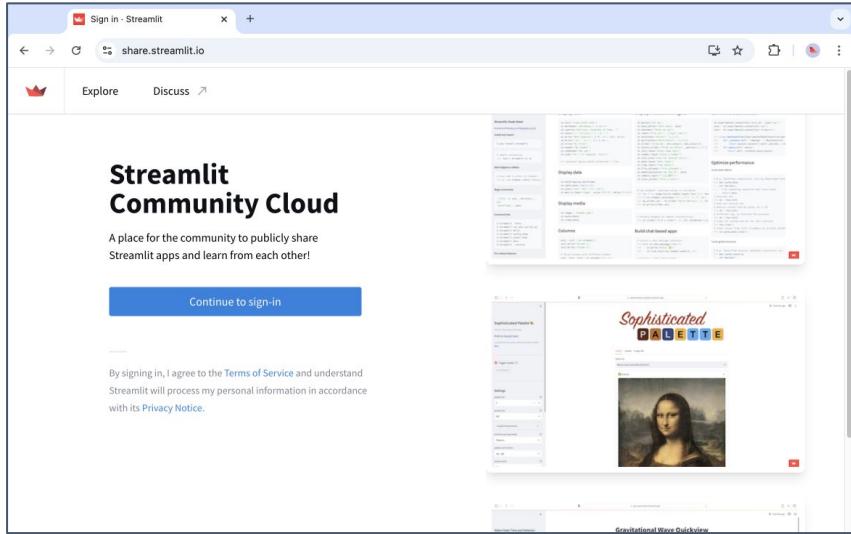
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## Publish Your App Online

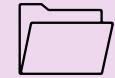
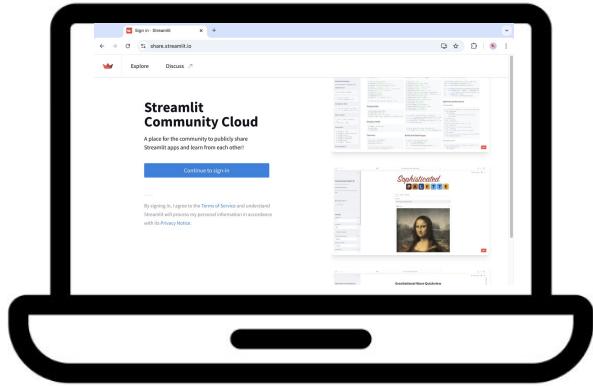
# Streamlit Community Cloud Basics



- Unlimited public apps
- One private app per account
- GitHub repository integration
- Automatic updates
- Built-in analytics

<https://share.streamlit.io/>

# Deploying to Streamlit Community Cloud

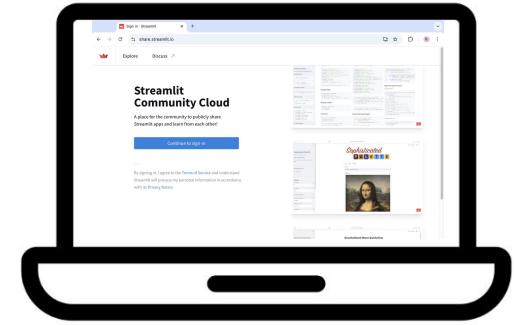


M1/Lesson\_03/deploy

# Deploying to Streamlit Community Cloud

Congratulations!

You've successfully deployed your Streamlit prototype to the cloud and made it accessible to the world!





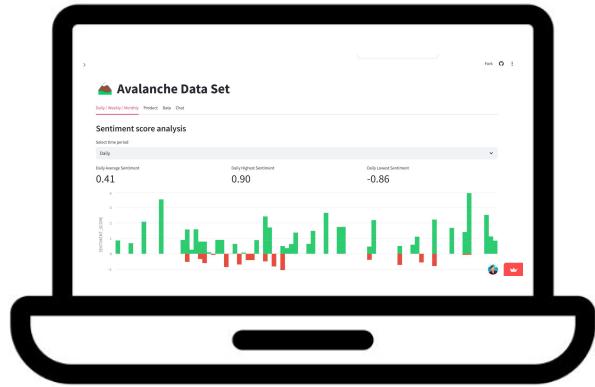
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# Fast Prototyping of GenAI Apps with Streamlit

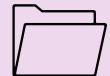
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Lab 2 – Sentiment  
Analysis Dashboard  
with Gen AI

# For This Lab



- Load a dataset with Pandas
- Analyze the reviews sentiments
- Display the dataset
- Visualize the sentiment analysis



M1/Lesson\_03/Lab2