

# CREATING RESPONSIBLE AI SOLUTIONS USING AZURE AI CONTENT SAFETY

Naveen Kumar M



# ABOUT ME

Naveen Kumar M



- Data Engineer
- 13 + Years of Experience
- 2 x C# Corner MVP
- 4 x Azure Certified
- Technical Blogger
- Speaker & Mentor



Linked 



Naveen Kumar M

Data Engineer | SQL / ETL Lead |  
C# Corner MVP



# AGENDA

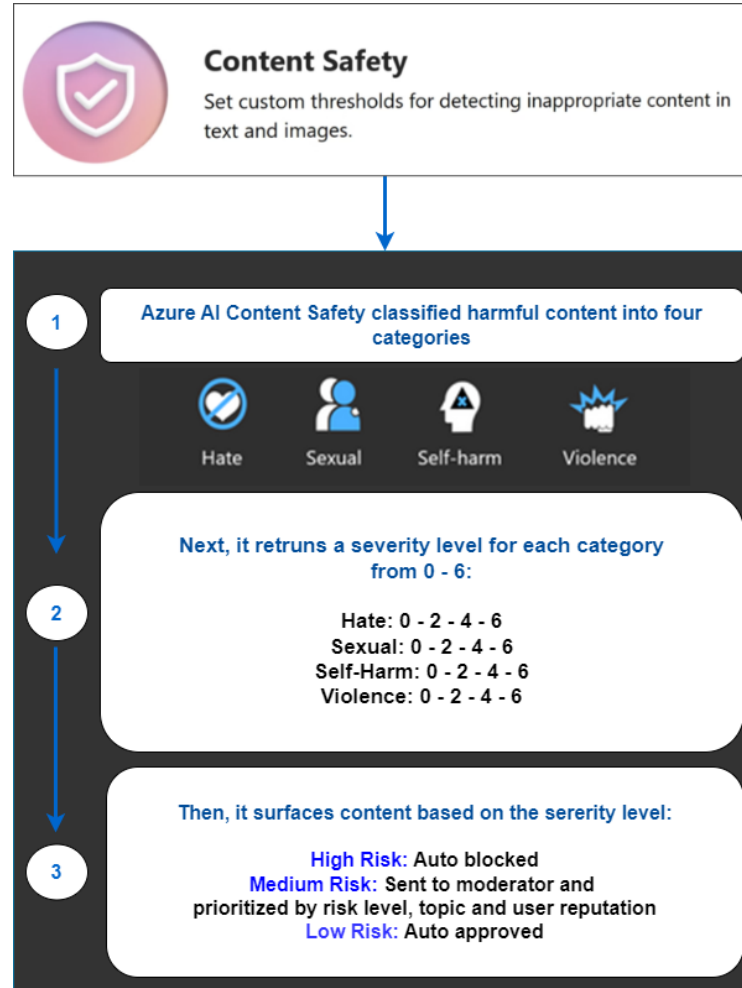
- Moderate Text Content
- Moderate Image Content
- Moderate Multimodal Content
- Protect Material Detection for Text
- Protect Material Detection for Code
- Prompt Shields
- Monitor Online Activities
- Implement Responsible AI in Content Safety Studio



# AZURE AI CONTENT SAFETY

- Azure AI Content Safety service detects harmful user-generated and AI-generated content in applications and services.
- It provides text and image APIs that allow you to detect harmful or inappropriate material.

# AZURE AI CONTENT SAFETY



# SEVERITY LEVELS

 **Configure filters**  Use blocklist

 **View code**

Set the severity thresholds for each category and select Run test to see how the results change.

[Reset to default](#)

Severity ⓘ

SAFE

LOW

MEDIUM

HIGH

Violence ⓘ



Self-harm ⓘ




Sexual ⓘ



Hate ⓘ



**Configure filters** Use blocklist

 **View code**

Set the Severity thresholds for each category. Content with a severity level less than the threshold will be allowed. [Learn more about categories and threshold](#)

Category

Threshold level



Violence

Medium



Allow Low / Block Medium and High



Self-harm

Medium



Allow Low / Block Medium and High



Sexual

Medium



Allow Low / Block Medium and High



Hate

Medium



Allow Low / Block Medium and High

# AZURE AI CONTENT SAFETY API'S

<b>Text Detection API</b>	Scans text for sexual content, violence, hate, and self-harm with multi-severity levels.
<b>Image Detection API</b>	Scans images for sexual content, violence, hate, and self-harm with multi-severity levels.
<b>Text Blocklist Management API</b>	You can create blocklists of terms to use with the Text API.

# CONTENT SAFETY STUDIO

Azure AI | Content Safety Studio

## Get started with Content Safety Studio

### Safeguard your text content with built-in features

Leverage our abilities to identify harmful text content across over 100 languages, and address concerns related to jailbreaking, hallucinations, and copyright infringements.



#### Moderate text content

Run moderation tests on text contents. Assess the test results with detected severities. Experiment with different threshold levels.

[Try it out](#)



#### Groundedness detection

Groundedness detection detects ungroundedness generated by the large language models (LLMs).

[Private preview - sign up.](#)



#### Protected material detection for text

Use protected material detection to detect and protect third-party text material in LLM output.

[Try it out](#)



#### Protected material detection for code

PREVIEW

Run tests on code generated by LLM and identify whether the code already exists in GitHub repo.

[Try it out](#)



#### Prompt Shields

Prompt Shields provides a unified API that addresses Jailbreak attacks and Indirect attacks.

[Try it out](#)

### Safeguard your image content with built-in features

Utilize these abilities to identify damaging content within images or multimodal formats such as memes.



#### Moderate image content

Run moderation tests on image contents. Assess the test results with detected severities. Experiment with different threshold levels.



#### Moderate multimodal content

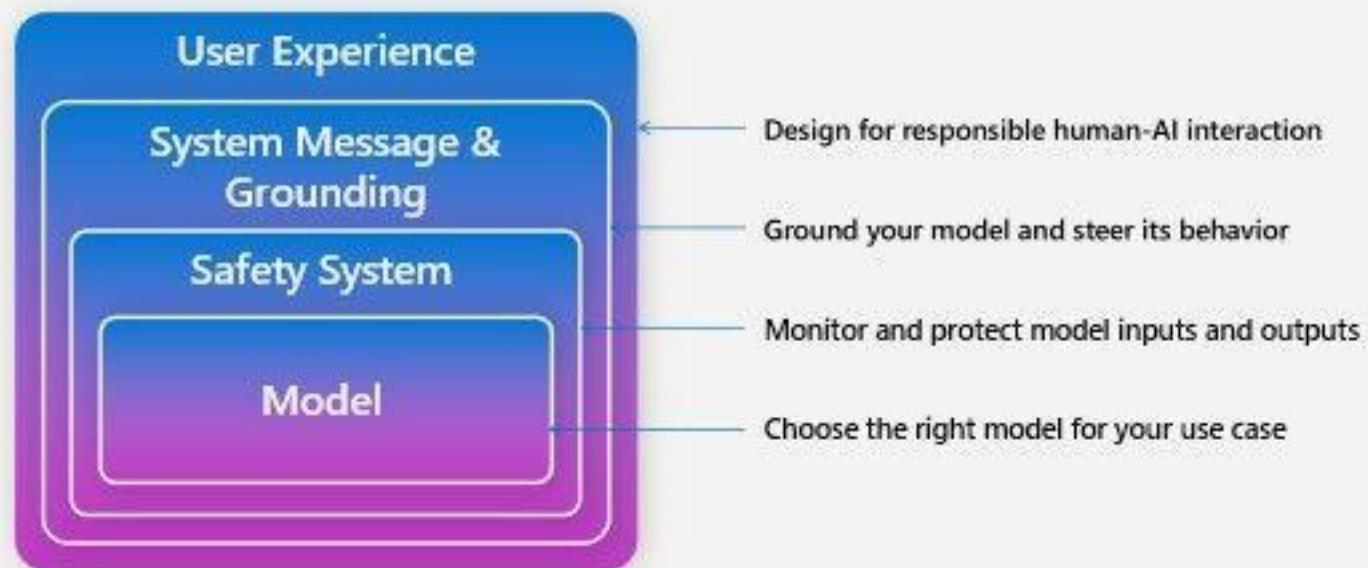
PREVIEW

Run moderation tests on image and text



# RESPONSIBLE AI FOR AZURE AI FOUNDRY

## Risk mitigation layers



# PREREQUISITES



Python 3.7  
library

Azure  
Subscription

Azure AI  
Content Safety  
Resource

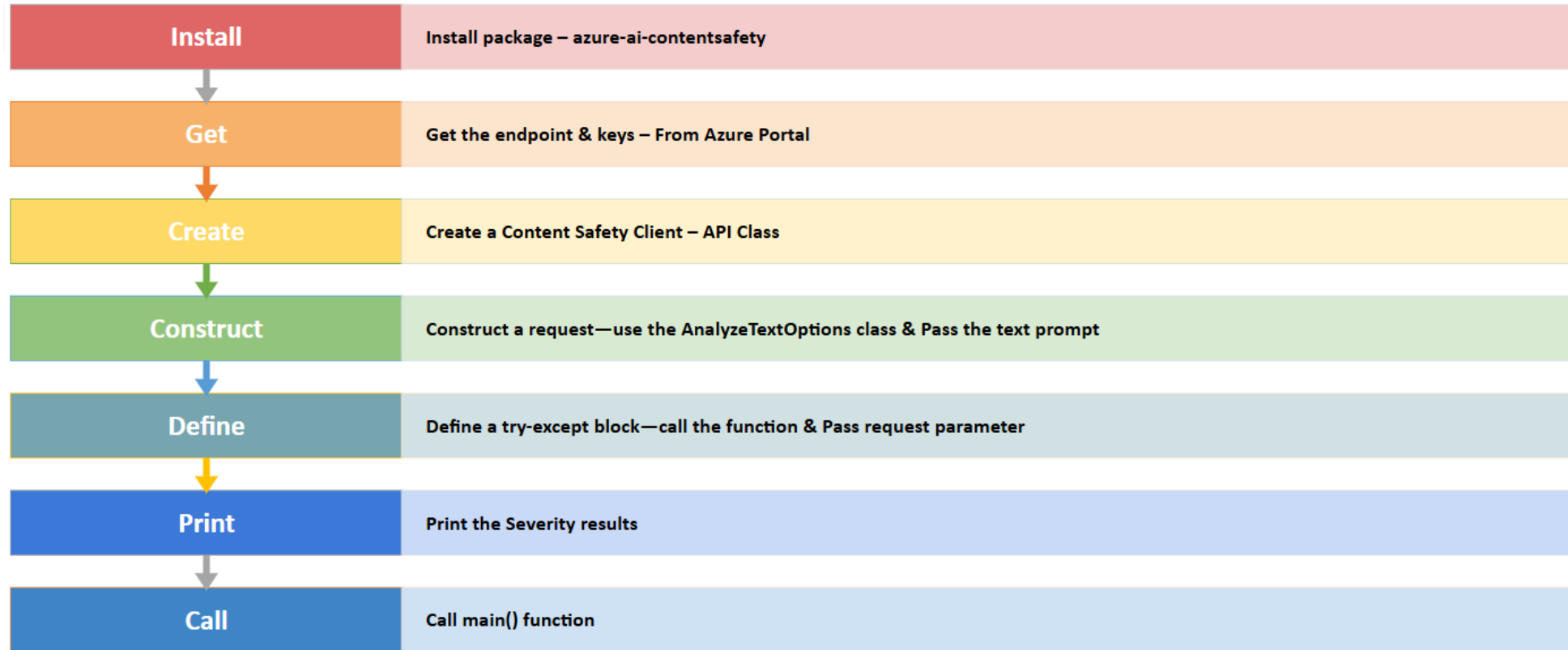
# CLIENT LIBRARY FOR PYTHON

- Azure AI Content Safety Client Library for Python

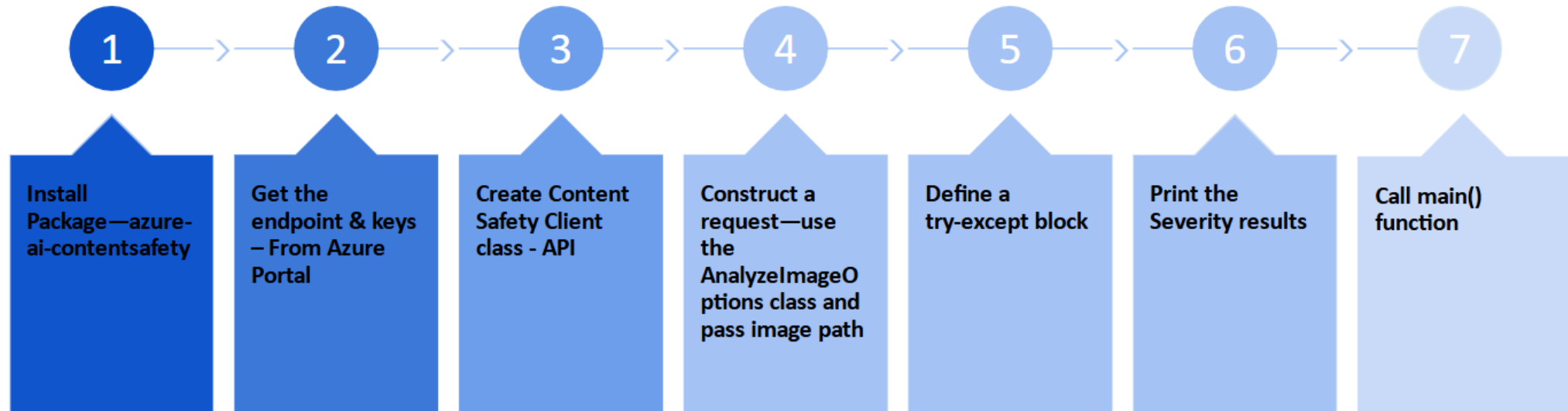
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE COMMENTS

```
PS C:\Users\navin> pip install azure-ai-contentssafety
```

# CREATING TEXT MODERATION



# CREATING IMAGE MODERATION



# CONTENT SAFETY USE CASES



Online  
Marketplaces



Gaming



Social Messaging  
Platforms



Enterprise Media  
Companies



Education  
Solution Providers

# CONTENT SAFETY USE CASES



Online marketplaces: Moderate product catalogs and other user-generated content.



Gaming companies: Moderate user-generated game artifacts and chat rooms.

Social messaging platforms: Moderate images and text added by their users.



Enterprise media: Implement centralized moderation for their content.



K-12 education: Filtering out content that is inappropriate for students and educators.

# PRICING

Region:

East US

▼

Currency:

United States – Dollar (\$) USD


▼


Instance	Features	Price
Free – Web	Text Prompt Shields Protected material detection Groundedness detection	5,000 text records per month <sup>1</sup>
	Image Multimodal	5,000 images per month
Standard – Web	Text Prompt Shields Protected material detection Groundedness detection	<b>\$0.38</b> per 1,000 text records <sup>1</sup>
	Image Multimodal	<b>\$0.75</b> per 1,000 images

<sup>1</sup>A text record in the S tier contains up to 1,000 characters as measured by Unicode code points. If a text input into the Content Safety API is more than 1,000 characters, it counts as one text record for each unit of 1,000 characters. For instance, if a text input sent to the API contains 7,500 characters, it will count as 8 text records. If a text input sent to the API contains 500 characters, it will count as 1 text record.










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 Azure AI

# Thank you!

For exploring Azure AI Content Safety



AI

AI

TATIE AI

AZURE AI