Semantic kernel
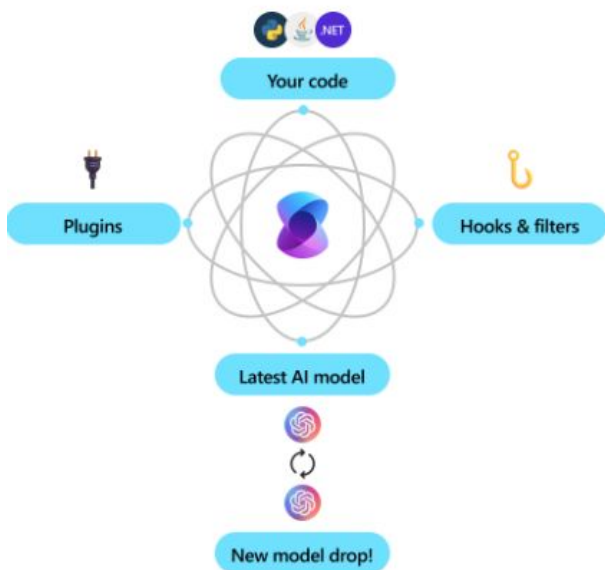
https://learn.microsoft.com/en-us/semantic-kernel/overview

What is **Semantic kernel**?

❏ Lightweight, open-source development kit
  ❏ Build AI agents
  ❏ Integrate the latest AI models

Some useful settings in csproj

```xml
<UnoSingleProject>true</UnoSingleProject>
<HotReloadEnabled>true</HotReloadEnabled>
<IsHotReloadSupported>true</IsHotReloadSupported>
<UseSkia>true</UseSkia>
```

Add Nuget package

```
$ dotnet add package Microsoft.SemanticKernel

using Microsoft.SemanticKernel.ChatCompletion;
using Microsoft.SemanticKernel.Connectors.OpenAI;

OpenAIChatCompletionService chatCompletionService;
```

Init

```
public MainPage() {
    #pragma warning disable SKEXP0010
     chatCompletionService = new (
        modelId: "deepseek-r1-distill-qwen-7b:2",
        endpoint: new Uri("http://localhost:1234/v1"),
        httpClient: new HttpClient()
    );
}
```

Making the call

```
var response = await
chatCompletionService.GetChatMessageContentAsync(
            prompt
    );
answerTextBlock.Text = response.Content;
```

LM Studio to serve local chat service

Model: deepseek-r1-distill-qwen-7b