1. Hello everyone, so in this video we are going to see about grok.

2. So let's start.

3. So as you have seen, in the previous videos we have used a lot of LLM models.

4. We also worked with paid and open source models.

5. If I talk about paid, we used Gemini model which comes from Google.

6. We used cloudy model which basically comes from anthropic.

7. Then we worked with some open source models In which we basically You must have seen that we downloaded Ollama in open source All the open source models in Ollama Whether it is Gama, Lama, Mistral In this way we used open source models And we also used LLM models from Hugging Phase So now we have one more way If you want to use any model Right, specially open source so we can use it with the help of grok grok basically provides you with an API that whatever model you want to use whether it is LAMA or GAMA ok or LAMA 3 as you have seen it comes from MATA LAMA 3.2 you can use this model with the help of grok grok is basically an AI company and you can see this in 2016 every company wants to make their best LLM model so what is Grog doing here he is hosting those LLM models in the cloud as you saw you used to download the olama model if you want to use any open source model you first download the olama application then you use any model from there then you pull it so it was downloaded in your local machine what was the biggest disadvantage of that the response was slow you get the answer in a very short time but now how can we do this better for that we will use grok first of all you have to go to google and write grok and the first link will open you have to click on it what is grok?

8. grok is fast AI inference and the main thing is how to use it so how to use this you can find the link in grok.com you will get it simple so I will tell you about this how to use this because at the end we just need to use the LLM models and we need to solve the EI use case right so what you need to do

you just need to click on this developer link and just click on the start building so after clicking on the start building so if in my case actually it not ask any credential because I have already login with my account so what you just need to do as soon as you click here it will tell you that let me show you once let's go to the incognito mode let's suppose I open it here no sorry let's go to incognito mode as I go to grok as I click on developer it will tell me to log in because I have already logged in I already logged in so I can't speak I will show you It will ask you to log in You have to simply log in with your Google account This is a very simple step As soon as you log in The first window that opens will open like this Then what you need to do The first thing is Playground Like we have seen in other LLM models OpenAI In Anthropic or Google because they are Playground Applications but we have to use the main function we have to use its API key and you can make a simple API key you can see just now I have made an API key and you can make a simple API key you can give its name and then just save it in your notepad and then just save it in your notepad make sure that whenever you make any API key make sure that whenever you make any API key all the LLM models that we have worked on save their API key in your notepad save their API key in your notepad save it so let's see how we will use it we are going to integrate it with langchain it is very simple what we have read till now are the same things we will use only one library rest of all things are same ok so I will tell you more things so that you get an idea which models we can use in grok as you click here you will get many models As you can see, the model comes from Google Gamma is trained on 7 billion parameters Gamma 2 is trained on 9 billion parameters Then you can see the model of Lama 3 It is also a model with Grog Then the whisper model comes from Hugging Face Lama 3.1, all models that Lama says You can also use it Lama Guard is a model of Gossam Guardrail Mistral is also a very good model You can see a whisper, which is an open AI model I will tell you about the whisper model in the upcoming videos We will do it in speech translation Whatever you say it will translate it and convert it into text We will see it see this in the future because in the upcoming videos where we will make the end-to-end project I will use Grok because in the previous videos I used Ollama models a lot and Gemini models so you have set up its APA then what you need to do you just need to come to your VS code now here I have made a .env file

in which I have made a grok api file which I have told you how to set up now for this I have made a requirement.txt file in which I have made a langchain, langchain grok and python.env and here I have done a simple thing by doing pip install hyphen r I have installed all my requirements you know all these things you have learned in the last videos because I wanted to tell you how you can use open source model with the help of grok because all the other things are same guys now you can see here I have imported some library from langchain grok because I need to use chat model then I am making a chain from langchain chain llm chain prompt template and os and all these I have to load apk I have loaded apk from os.inv and apk I have called chat model First parameter is model name and temperature You can also put temperature Temperature is to control creativity or randomness I have given 0.7 here so the model will be more creative Now you can use the model of gamma to 9 billion parameter You can use the model of mistal or lama3 You can use any model, it is up to you I am making a prompt template I have put an input variable in the prompt template that I will ask a question I have put a template cap and then you will get a template that please answer this question means ok you know all these things because this is not a new thing for you correct ok after that what I have to do now simply I called my LLM chain class and what I will put in it first of all my LLM model will go in the chain and then my prompt will go which I am putting basic prompt here you know why we make prompt template where basically I have now I am asking a question right so I have put question in input variable name and put in template please answer this question ok now what I have to do I have to invoke it so I put a question here as a string what are the three main benefits of artificial intelligence now I will invoke this chain and I will pass this question here right as a dictionary now you can see I have passed this I am printing this question here ok so let run this once the test So the answer we got is with the help of gamma model How simple is it right So it said what are the three main benefits of artificial intelligence Here are the three main benefits of artificial intelligence Increase efficiency and productivity Improve decision making Personalization and customization So let's use some other model and see how it answers let's suppose I use this model I could have written code from the beginning but the thing is we have seen this in previous videos so now you should understand things like what is prompt, template, what is chain correct main thing is

that you use chat grow class where the first parameter will be model name right so let me run it guys now let's see what answer it gives so we are using model it gave efficiency and productivity data analysis insights and advancement in healthcare and science so see it gave this answer ok now you can use mistral model let's use lama model once so let's use lama model too you can use any model with the help of this app you have to make only one app you have to download different models you have to pull the model see here we have the answer which model are you using this time we are using LAMA LAMA is a very good model and this is a very good competition with openAI especially LAMA and OpenAI because when it had workbench score of LAMA 3 it was matching and even beating OpenAI so LAMA models are also very good models and the best thing about LAMA models is they are open source now you are seeing here that you don't have to pay anything you don't need to pay anything even you just don't need to add any credit card where you are worried about using limit more than credit card then what will happen when will I get bill of credit card here you are using in very simple way the thing is you have to understand things step by step so you saw how easily we this was second question I asked him how does machine learning work he told me that machine learning is a sub field of artificial intelligence that enable computer to learn from data without being explicitly programmed and then basic components like data algorithm, model, training, model building, testing I hope you guys understood In the next video when we will make a project We will use Grok API So you guys set it up If you have any doubts Please ask me in the comment section See you all in my next video Thank you