

[ { "text": "I built an AI server for my daughters.\nWell, first it was more for me.", "start": 0.15, "duration": 3.0 }, { "text": "I wanted to run all of my AI locally.", "start": 3.18, "duration": 1.8 }, { "text": "And I'm not just talking command line\nwith alama. No, no, no. We have a gui,", "start": 5.01, "duration": 4.05 }, { "text": "a beautiful chat interface and\nthis thing's feature filled.", "start": 9.33, "duration": 2.85 }, { "text": "It's got our back chat\nhistories, multiple models,", "start": 12.185, "duration": 2.845 }, { "text": "we can even add stable diffusion.", "start": 15.06, "duration": 1.5 }, { "text": "And I was able to add this to my notes\napplication obsidian and have my chat", "start": 16.65, "duration": 3.15 }, { "text": "interface right there. I'm going\nto show you how to do this.", "start": 19.8, "duration": 2.07 }, { "text": "Now you don't need something crazy like\nTerry, that's what I named my AI server.", "start": 21.99, "duration": 3.39 }, { "text": "It can be something as\nsimple as this, this laptop,", "start": 25.5, "duration": 2.61 }, { "text": "I'll actually demo the\nentire setup on this laptop.", "start": 28.17, "duration": 1.86 }, { "text": "So likely the computer you're using\nright now, the one you're watching,", "start": 30.24, "duration": 2.55 }, { "text": "this video one will probably work. And\nseriously, you're going to love this.", "start": 32.79, "duration": 2.85 }, { "text": "It's customizable, it's wicked fast,\nway faster than anything else I've used.", "start": 35.67, "duration": 3.81 }, { "text": "Isn't that amazing? And again, it's\nlocal, it's private. I control it,", "start": 39.48, "duration": 4.17 }, { "text": "which is important because I'm\ngetting it to my daughters.", "start": 43.77, "duration": 2.13 }, { "text": "I want them to be able to\nuse AI to help with school.", "start": 45.96, "duration": 2.4 }, { "text": "but I don't want them to cheat\nor do anything else weird.", "start": 48.42, "duration": 2.46 }, { "text": "But because I have control,", "start": 50.94, "duration": 1.17 }, { "text": "I can put in special model files that\nrestrict what they can do, they can ask,", "start": 52.115, "duration": 3.625 }, { "text": "and I'll show you how to do that. So\nwhere we go. Get your coffee ready.", "start": 55.8, "duration": 2.31 }, { "text": "We're about to dive in, but\nfirst let me have you meet Terry.", "start": 58.29, "duration": 2.64 }, { "text": "Now Terry has a lot of muscle. So\nfor the case, I needed something big.", "start": 61.23, "duration": 2.91 }, { "text": "I got the Leon Lee zero 11 dynamic EVO xl.", "start": 64.32, "duration": 2.85 }, { "text": "It's a full tower EATX case perfect\nto hold my ASUS X six 70 E Creator pro", "start": 67.2, "duration": 4.86 }, { "text": "art motherboard. This\nthing's also a beast.", "start": 72.065, "duration": 2.035 }, { "text": "I'll put it in the description\nso you can look at it. Now,", "start": 74.13, "duration": 1.71 }, { "text": "I also gave Terry a big brain.\nHe's got the A MD Ryzen 9 79 50 x.", "start": 75.84, "duration": 4.41 }, { "text": "That's 4.2 gigahertz and 16 cores.\nFrom memory, I went a little crazy.", "start": 80.46, "duration": 4.11 }, { "text": "I've got 128 gigabytes of\nthe gki trite D five Neo", "start": 84.66, "duration": 4.23 }, { "text": "it's DDR R five 6,000 and way\noverkill for what I'm doing.", "start": 89.1, "duration": 3.06 }, { "text": "I think I got a Leon Lee\nwater cooler for the CPU.", "start": 92.61, "duration": 2.49 }, { "text": "I'm not sure if I'm seeing\nLeon Lee, right? I don't know.", "start": 95.31, "duration": 2.16 }, { "text": "Correct me in the comments. You always\ndo. And then for the stuff AI loves", "start": 97.53, "duration": 2.97 }, { "text": "I got two 40 nineties.", "start": 100.59, "duration": 1.65 }, { "text": "it's the MSI Sremm and their liquid cooled\nso they could fit on my motherboard.", "start": 102.3, "duration": 3.42 }, { "text": "24 gigabytes of memory each giving me\nplenty of muscle For my AI models for", "start": 105.84, "duration": 4.77 }, { "text": "storage, we got two Samsung\nnine 90 pros, two terabytes", "start": 110.61, "duration": 3.12 }, { "text": "which you can't see because\nthey're behind stuff.", "start": 113.76, "duration": 1.86 }, { "text": "And also of Corsair AX 1600 I power supply\n1600 watts to power the entire build.", "start": 115.65, "duration": 4.89 }, { "text": "Terry is ready. 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This thing is awesome.", "start": 137.94, "duration": 3.78 }, { "text": "It worked the first time.", "start": 142.05, "duration": 1.23 }, { "text": "It even had a special image\nwith Nvidia drivers built in.", "start": 143.43, "duration": 2.49 }, { "text": "It just stink and worked.\nSo I sipped some coffee", "start": 146.04, "duration": 2.31 }, { "text": "didn't question the magic and moved on.", "start": 148.41, "duration": 1.8 }, { "text": "Now if you do want to build something\nsimilar, I've got all the links below.", "start": 150.78, "duration": 2.4 }, { "text": "But anyways, let's talk about how to\nbuild your very own local AI server.", "start": 153.39, "duration": 4.89 }, { "text": "First, what do you need? Really all\nyou'll need is a computer. That's it.", "start": 158.46, "duration": 3.96 }, { "text": "It can be any computer running Windows,\nMac or Linux. And if you have a GPU", "start": 162.425, "duration": 3.925 }, { "text": "you'll have a much better time. 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If you're on Windows", "start": 190.0, "duration": 2.07 }, { "text": "they do have a preview version, but\nI don't want you to do that. Instead", "start": 192.1, "duration": 3.87 }, { "text": "I want you to try the Linux version.\nWe can install it with one command.", "start": 196.09, "duration": 3.09 }, { "text": "And yes, you can run Linux on Windows\nwith WSL. Let's get that going real quick.", "start": 199.36, "duration": 4.62 }, { "text": "First thing I'll do is go to the start\nbar and search for terminal and launch my", "start": 204.28, "duration": 3.84 }, { "text": "terminal.", "start": 208.27, "duration": 0.51 }, { "text": "Now those first bit is for Windows\nfolks only Linux people to hang on for a", "start": 208.78, "duration": 3.18 }, { "text": "moment, we got to get WSL installed\nor the Windows subsystem for Linux.", "start": 211.96, "duration": 3.78 }, { "text": "It's only one command WSL\ndash install and that's it.", "start": 215.77, "duration": 4.95 }, { "text": "Actually hit enter and that's going to\nstart doing some stuff. When it's done", "start": 220.72, "duration": 3.36 }, { "text": "we'll set up a username and password.\nI got a new keyboard by the way.", "start": 224.08, "duration": 3.54 }, { "text": "Do you hear that link below? It's my\nfavorite keyboard of the entire world.", "start": 227.62, "duration": 4.32 }, { "text": "Now some of you may have\nto reboot. That's fine.", "start": 232.21, "duration": 1.8 }, { "text": "Just pause the video and come\nback. Mine is ready to go though.", "start": 234.04, "duration": 2.4 }, { "text": "And we're walking Ubuntu 22.04.", "start": 236.44, "duration": 2.85 }, { "text": "which is still amazing to me that\nwe're running Linux on Windows.", "start": 239.32, "duration": 2.88 }, { "text": "That's just magic right now we're about\nto install Llama, but before we do that", "start": 242.62, "duration": 3.48 }, { "text": "you got to do some best practice\nstuff like updating our packages.", "start": 246.34, "duration": 3.51 }, { "text": "So we'll do a pseudo a PT update\nand then we'll do a pseudo A PT", "start": 249.94, "duration": 4.56 }, { "text": "upgrade Y to apply all those updates.", "start": 255.49, "duration": 4.83 }, { "text": "And actually while it's updating", "start": 260.65, "duration": 1.02 }, { "text": "can I tell you something about our\nsponsor IT Pro by a CI Learning.", "start": 261.67, "duration": 3.57 }, { "text": "Now in this video, we're going to\nbe doing lots of heavy Linux things.", "start": 265.45, "duration": 2.82 }, { "text": "I'm going to walk you through it.", "start": 268.48, "duration": 0.72 }, { "text": "I'm going to hold your hand and you may\nnot really understand what's happening.", "start": 269.2, "duration": 3.03 }, { "text": "That's where IT pro comes in.", "start": 272.47, "duration": 1.35 }, { "text": "If you want to learn Linux or really\nanything in it, they are your go-to", "start": 274.03, "duration": 3.93 }, { "text": "that's what I use to learn new stuff.", "start": 278.2, "duration": 1.32 }, { "text": "So if you want to learn Linux to get\nbetter at this stuff or you want to start", "start": 279.55, "duration": 2.82 }, { "text": "making this whole hobby thing your\ncareer, actually learn some skills", "start": 282.37, "duration": 3.09 }, { "text": "get some certifications, get\nyour A plus, get your CNA", "start": 285.465, "duration": 2.485 }, { "text": "get your AWS certifications", "start": 288.07, "duration": 1.29 }, { "text": "your Azure certifications and go down\nthis crazy IT path, which is incredible.", "start": 289.36, "duration": 4.08 }, { "text": "It's the whole reason I make this\nchannel and make these videos.", "start": 293.44, "duration": 2.64 }, { "text": "Check out IT Pro they've got IT\ntraining that won't put you to sleep.", "start": 296.08, "duration": 3.09 }, { "text": "They have labs, they have practice exams", "start": 299.17, "duration": 2.16 }, { "text": "and if you use my Code network check\nright now, you'll get 30% off forever.", "start": 301.36, "duration": 3.45 }, { "text": "So go learn some Linux and thank you\nto IT Pro for sponsoring this video and", "start": 304.87, "duration": 2.88 }, { "text": "making things like this possible.\nAnd speaking of my updates are done.", "start": 307.75, "duration": 2.85 }, { "text": "And by the way, I will have a guide\nfor this entire thing. Every step", "start": 310.75, "duration": 2.58 }, { "text": "all the commands, you can find it at the\nFree network Chuck Academy membership.", "start": 313.33, "duration": 3.57 }, { "text": "Click the link" ]

below to join and get some other cool stuff as well.", "start": 316.96, "duration": 2.31 }, { "text": "I can't wait to see you there. Now we can install llama with one command.", "start": 319.33, "duration": 2.85 }, { "text": "And again, all commands are below.", "start": 322.63, "duration": 1.47 }, { "text": "It's going to paste this in a nice little curl command.", "start": 324.37, "duration": 2.4 }, { "text": "little magic stuff and I love how easy this is.", "start": 327.07, "duration": 2.28 }, { "text": "Watch you just sit there and let it happen.", "start": 329.35, "duration": 2.19 }, { "text": "Do you not feel like a wizard when you're installing stuff like this and the", "start": 331.66, "duration": 2.67 }, { "text": "fact that you're installing AI right now? Come on.", "start": 334.33, "duration": 2.28 }, { "text": "I noticed one thing real quick.", "start": 336.91, "duration": 1.14 }, { "text": "Old LAMA did automatically find out that I have an Nvidia GPU and it's like", "start": 338.56, "duration": 4.05 }, { "text": "awesome, you're going to have a great time.", "start": 342.67, "duration": 1.56 }, { "text": "If it didn't see that and you do have a GPU,", "start": 344.47, "duration": 1.8 }, { "text": "you may have to install some Nvidia Cuda drivers.", "start": 346.27, "duration": 2.34 }, { "text": "I'll put a link for that below, but not everyone will have to do that.", "start": 348.64, "duration": 2.49 }, { "text": "And if you're rocking a Mac with an M1 through M three chip.", "start": 351.16, "duration": 2.46 }, { "text": "you're going to have a good time too. They'll use the embedded GPU Now at this.", "start": 353.68, "duration": 3.18 }, { "text": "our Mac users, our Linux users and our Windows users are all converged.", "start": 357.2, "duration": 3.36 }, { "text": "We're on the same path. Welcome. We can hold hands and sing.", "start": 360.59, "duration": 3.72 }, { "text": "That's getting weird. Anyways.", "start": 365.48, "duration": 0.99 }, { "text": "first we have to test a few things to make sure llama is working.", "start": 366.53, "duration": 2.37 }, { "text": "And for that we're going to open our web browser. I know it's kind of weird.", "start": 369.2, "duration": 2.37 }, { "text": "just stick with me. I'm going to launch Chrome here and here are my address bar.", "start": 371.78, "duration": 3.36 }, { "text": "I want to type in local host, which is looking right here at my computer.", "start": 375.14, "duration": 3.63 }, { "text": "And port 1, 1 4, 3, 4, hit enter.", "start": 379.28, "duration": 3.54 }, { "text": "And if you see this right here, this message.", "start": 382.97, "duration": 1.98 }, { "text": "you're good to go and you're about to find this out.", "start": 385.1, "duration": 1.89 }, { "text": "Port 1 1 4 3 4 is what llama's API services is running on and it's how our other", "start": 387.35, "duration": 4.86 }, { "text": "stuff is going to interact with it. It's so powerful. Just check this out.", "start": 392.24, "duration": 3.0 }, { "text": "I'm so excited to show you this. Now before we move on.", "start": 395.6, "duration": 2.28 }, { "text": "let's go ahead and add an AI model to llama.", "start": 398.06, "duration": 1.92 }, { "text": "And we can do that right now with llama Pull and we'll pull down Llama two.", "start": 400.185, "duration": 4.835 }, { "text": "A very popular one. Hit enter and it's ready. Now let's test it out real quick.", "start": 405.2, "duration": 3.99 }, { "text": "We'll do Llama run Llama two.", "start": 409.22, "duration": 2.73 }, { "text": "And if this is your first time doing this, this is kind of magic.", "start": 413.09, "duration": 2.37 }, { "text": "We're about to interact with a chat GPT, like AI right here.", "start": 415.52, "duration": 3.87 }, { "text": "no internet required. It's all just happening in that five gigabyte file.", "start": 419.78, "duration": 3.57 }, { "text": "Tell me about the solar eclipse. Boom.", "start": 423.59, "duration": 4.47 }, { "text": "And you can actually control see that to stop it. Now I want to show you this.", "start": 428.18, "duration": 3.09 }, { "text": "I'm going to open up a new window.", "start": 431.39, "duration": 0.9 }, { "text": "This is actually an awesome command and with this WSL command.", "start": 432.62, "duration": 2.37 }, { "text": "I'm just connecting to the same incident. Again, a new window.", "start": 434.99, "duration": 2.58 }, { "text": "I'm going to type in watch dash N 0.5.", "start": 437.69, "duration": 3.66 }, { "text": "not four five Nvidia dash smmi.", "start": 441.95, "duration": 3.06 }, { "text": "This is going to watch the performance of my GPU right here in the terminal and", "start": 445.22, "duration": 4.41 }, { "text": "keep refreshing it. So keep an eye on this right here.", "start": 449.63, "duration": 3.81 }, { "text": "As I chat with llama two.", "start": 453.74, "duration": 2.34 }, { "text": "give me a list of all Adam Sandler.", "start": 456.83, "duration": 4.05 }, { "text": "movies and look at that GPU Go. Ah.", "start": 461.54, "duration": 4.47 }, { "text": "it's so fun. Now can I show you what Terry does? Real quick?", "start": 466.01, "duration": 2.85 }, { "text": "I got to show you Terry. Terry has two GPUs here.", "start": 468.95, "duration": 2.76 }, { "text": "They're right here and llama can actually use both of them at the same time.", "start": 471.71, "duration": 4.23 }, { "text": "Check this out. It's so cool.", "start": 476.36, "duration": 1.68 }, { "text": "All the semi old Jackson movies. And look at that.", "start": 479.12, "duration": 4.41 }, { "text": "Isn't that amazing? And look how fast it went. That's ridiculous.", "start": 484.01, "duration": 3.33 }, { "text": "This is just the beginning. So anyways, I had to show you Terry.", "start": 487.55, "duration": 2.16 }, { "text": "So now we have a llama installed. That's just our base.", "start": 489.89, "duration": 2.13 }, { "text": "Remember I'm going to say bye. So slash bye to end that session.", "start": 492.02, "duration": 4.08 }, { "text": "Step two is all about the web ui. And this thing is amazing.", "start": 496.43, "duration": 3.15 }, { "text": "It's called Open Web ui and it's actually none of many web UI you can get for", "start": 499.58, "duration": 3.81 }, { "text": "Llama, but I think Open Web UI is the best.", "start": 503.48, "duration": 2.46 }, { "text": "Now Open Web UI will be run inside a Docker container.", "start": 506.24, "duration": 2.58 }, { "text": "So you will need Docker installed and we'll do that right now.", "start": 508.82, "duration": 2.43 }, { "text": "So we'll just copy and paste the commands from Network Struck Academy.", "start": 511.49, "duration": 2.7 }, { "text": "This is also available on Docker's website.", "start": 514.97, "duration": 1.83 }, { "text": "First step is updating our repositories and getting docker's GPG key.", "start": 517.16, "duration": 3.87 }, { "text": "And then with one command we will install Docker and all its goodies. Ready.", "start": 522.05, "duration": 3.18 }, { "text": "set, go. 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It's looking at your local computer for the llama base.", "start": 539.49, "duration": 3.9 }, { "text": "URL because it's going to integrate and use llama and it's going to be using the", "start": 543.395, "duration": 4.105 }, { "text": "host network adapter to make things nice and easy.", "start": 547.5, "duration": 2.55 }, { "text": "Keeping in mind this will use Port 8080 on whatever system you are using.", "start": 550.23, "duration": 3.78 }, { "text": "And all we have to do is hit enter.", "start": 554.25, "duration": 1.14 }, { "text": "after we add some pseudo at the beginning.", "start": 557.1, "duration": 2.67 }, { "text": "pseudo docker run and let it do its thing. Let's verify it real quick.", "start": 560.52, "duration": 3.57 }, { "text": "We'll do a little pseudo docker PS. We can see that it is indeed running.", "start": 564.12, "duration": 4.98 }, { "text": "And now let's go log in. It's kind of exciting. Okay.", "start": 569.79, "duration": 2.91 }, { "text": "let's go to our web browser and we'll simply type in local host", "start": 572.7, "duration": 3.48 }, { "text": "colon port 80, 80, and whoa, okay, it's really zoomed in.", "start": 577.2, "duration": 4.77 }, { "text": "I'm not sure why yours shouldn't do that. Now for the first time you run it.", "start": 581.97, "duration": 3.03 }, { "text": "you'll want to click on sign up right here at the bottom and just put your stuff", "start": 585.0, "duration": 3.15 }, { "text": "in. This login info is only pertinent to this instance.", "start": 588.15, "duration": 3.96 }, { "text": "this local instance, we'll create the account and we're logged in.", "start": 592.11, "duration": 4.11 }, { "text": "Now just so you know.", "start": 596.28, "duration": 0.575 }, { "text": "the first account you log in with or sign up with will automatically become an", "start": 596.855, "duration": 3.835 }, { "text": "admin account. So right now, you as a first time user logging in.", "start": 600.69, "duration": 3.36 }, { "text": "you get the power. But look at this. How amazing is this? Let's play with it.", "start": 604.29, "duration": 4.44 }, { "text": "So the first thing we have to do is select the model.", "start": 608.73, "duration": 1.8 }, { "text": "I'll click that drop down and we should have one llama two. Awesome.", "start": 610.65, "duration": 3.45 }, { "text": "And that's how we know also our connection is working.", "start": 614.16, "duration": 2.31 }, { "text": "I'll go ahead and select that. 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Now, first things we can download more models.", "start": 640.26, "duration": 3.33 }, { "text": "We can go out to llama and see what they have available.", "start": 643.62, "duration": 2.19 }, { "text": "Look on their models to see their list of models. Code Gemma is a big one.", "start": 646.71, "duration": 3.63 }, { "text": "Let's try that. So to add code Gemma, our second model.", "start": 650.34, "duration": 2.49 }, { "text": "we'll go back to our command line here and type in llama pull code Gemma.", "start": 652.83, "duration": 4.98 }, { "text": "Cool, it's done. Once that's pulled.", "start": 659.19, "duration": 2.16 }, { "text": "we can go up here and just change our model by clicking on the little dropdown.", "start": 661.41, "duration": 0.0 }

3.36 }, { "text": "icon at the top. Yep, there's\ncode gma. We can switch.", "start": 664.77, "duration": 3.12 }, { "text": "And actually I've never done this before,", "start": 667.895, "duration": 1.075 }, { "text": "so I have no idea what's going to happen.", "start": 668.97, "duration": 2.19 }, { "text": "I want to click on my\noriginal model LAMA two.", "start": 671.61, "duration": 2.19 }, { "text": "You can actually add another model to\nthis conversation. Now we have two here.", "start": 674.34, "duration": 3.87 }, { "text": "What's going to happen?", "start": 678.72, "duration": 0.84 }, { "text": "So code Gemma is answering it first.\nI'm actually not sure what that does.", "start": 681.66, "duration": 4.17 }, { "text": "Maybe you guys can try it out and\ntell me. I want to move on though.", "start": 686.31, "duration": 2.46 }, { "text": "Now some of the crazy stuff\nyou can see right here,", "start": 689.16, "duration": 1.62 }, { "text": "it's almost more featured\nthan chat GBT In some ways.", "start": 690.96, "duration": 2.79 }, { "text": "You got a bunch of options for\nediting your responses, copying,", "start": 694.05, "duration": 3.21 }, { "text": "liking and disliking it to help it learn.", "start": 697.29, "duration": 1.71 }, { "text": "You can also have it read things\nout to you, continue response,", "start": 699.06, "duration": 2.82 }, { "text": "regenerate response, or even just\nadd stuff with your own voice.", "start": 701.94, "duration": 3.45 }, { "text": "I can also go down here and this is crazy.", "start": 705.69, "duration": 2.94 }, { "text": "I can mention another model and it's\nngoing to respond to this and think about", "start": 709.29, "duration": 4.69 }, { "text": "it. Did you see that? 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Summarize this.", "start": 742.9, "duration": 3.87 }, { "text": "You can see our GPU being used over here.\nI love that so much. Running locally.", "start": 747.385, "duration": 4.245 }, { "text": "Cool. We can also add pictures\nfor multimodal models.", "start": 751.75, "duration": 3.87 }, { "text": "I'm not sure coma can do that.\nLet's try it out real quick.", "start": 755.62, "duration": 2.7 }, { "text": "So alama can't do it, but there\nis a multimodal model called lava.", "start": 759.04, "duration": 4.05 }, { "text": "Let's pull that down real quick with lava\npulled, let's go to our browser here.", "start": 763.12, "duration": 4.08 }, { "text": "Once more, we'll refresh it, change\nour model to lava. Add the image.", "start": 767.2, "duration": 4.35 }, { "text": "That's really scary. There we go. That's\npretty cool. Now here in a moment,", "start": 773.92, "duration": 3.6 }, { "text": "I will show you how we can generate\nimages right here in this web interface by", "start": 777.52, "duration": 3.63 }, { "text": "using stable diffusion. But first\nlet's play around a bit more.", "start": 781.15, "duration": 2.61 }, { "text": "And actually the first place I want\nto go to is the admin panel For you.", "start": 783.91, "duration": 2.85 }, { "text": "the admin, we have one user and\nif we click on the top right.", "start": 787.3, "duration": 3.06 }, { "text": "we have admin settings. Here's\nwhere a ton of power comes in first.", "start": 790.36, "duration": 3.42 }, { "text": "We can restrict people from signing up.\nWe can say enabled or disabled. Now,", "start": 793.78, "duration": 3.15 }, { "text": "right now, by default it's\nenabled. 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So you know what.", "start": 844.24, "duration": 2.37 }, { "text": "they're only allowed to\nuse LAMA two and that's it.", "start": 846.61, "duration": 2.82 }, { "text": "So when I get back to Bernard\nhack Well's session over here.", "start": 849.79, "duration": 2.64 }, { "text": "I should only have access to LAMA two.", "start": 852.52, "duration": 2.22 }, { "text": "It's pretty sick and it becomes even\nbetter when you can make your own models.", "start": 855.16, "duration": 3.15 }, { "text": "that are restricted.", "start": 858.34, "duration": 0.84 }, { "text": "We're going to mo you on over to the\nsection called model files right up here.", "start": 859.45, "duration": 3.6 }, { "text": "And we'll click on create a model file.", "start": 863.47, "duration": 2.01 }, { "text": "You can also go to the community\nand see what people have created.", "start": 865.78, "duration": 2.22 }, { "text": "That's pretty cool. I'm going to show you\nwhat I've done for my daughter, Chloe.", "start": 868.06, "duration": 3.06 }, { "text": "to prevent her from cheating.\nShe named her assistant Deborah.", "start": 871.12, "duration": 2.58 }, { "text": "And here's the content. I'm\ngoing to paste it in right now.", "start": 874.33, "duration": 1.8 }, { "text": "The main thing is up here where it\nsays from, and you choose your model.", "start": 876.58, "duration": 2.79 }, { "text": "So from llama two. And then\nyou have your system prompt.", "start": 879.37, "duration": 2.76 }, { "text": "which is going to be\nbetween three double quotes.", "start": 882.16, "duration": 2.94 }, { "text": "And I've got all this telling\nit what a can and can't do.", "start": 885.31, "duration": 2.46 }, { "text": "what Chloe's allowed to ask. 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There's\na better one called mixed roll Lemme.", "start": 916.4, "duration": 3.325 }, { "text": "lemme show you Terry. I'll\nuse Deborah or Deb and say.", "start": 920.295, "duration": 3.665 }, { "text": "write me a paper on Benjamin Franklin.", "start": 923.96, "duration": 2.61 }, { "text": "I notice how it didn't write it for\nme, but it says it's going to guide me.", "start": 927.29, "duration": 3.57 }, { "text": "And that's what I told\nit to do to be a guide.", "start": 931.04, "duration": 2.34 }, { "text": "I tried to push it and it said\nno. So that's pretty cool.", "start": 935.99, "duration": 2.07 }, { "text": "You can customize these prompts.", "start": 938.09, "duration": 1.62 }, { "text": "put in some guard rails for people that\ndon't need full access to the kind of", "start": 939.92, "duration": 3.06 }, { "text": "stuff right now. I\nthink it's awesome. Now.", "start": 942.98, "duration": 2.37 }, { "text": "OpenWeb UI does have a few\nmore bells and whistles.", "start": 945.355, "duration": 1.945 }, { "text": "but I want to move on to\ngetting stable diffusion set up.", "start": 947.3, "duration": 2.25 }, { "text": "This thing is so cool and powerful.\nStep three, stable diffusion.", "start": 949.73, "duration": 4.41 }, { "text": "I didn't think that image generation\nlocally would be as fun or as powerful as", "start": 954.29, "duration": 4.41 }, { "text": "chat GPT, but it's more, it's\nnrazy. You got to see it.", "start": 958.7, "duration": 4.62 }, { "text": "Now we'll be installing Stable diffusion\nwith a UI called Automatic 1 1 1 1.", "start": 963.44, "duration": 4.59 }, { "text": "So let's knock it out.\nNow before we install it.", "start": 968.36, "duration": 1.8 }, { "text": "we got some prereqs and one\nof them is an amazing tool.", "start": 970.16, "duration": 2.7 }, { "text": "I have been using a lot called PI ENV.", "start": 972.86, "duration": 2.37 }, { "text": "which helps us manage our Python\nversions and switch between them.", "start": 975.38, "duration": 3.24 }, { "text": "which is normally such a pain. Anyways.", "start": 978.65, "duration": 1.89 }, { "text": "the first thing we got to do is make\nsure we have a bunch of prerequisites.", "start": 980.54, "duration": 2.52 }, { "text": "installed. Go ahead and copy and paste\nthis from the Network Check Academy.", "start": 983.06, "duration": 2.76 }, { "text": "Let it do its thing for a bit.\nAnd with the prereqs installed.", "start": 986.12, "duration": 2.55 }, { "text": "we'll copy and paste this command.", "start": 988.67, "duration": 1.11 }, { "text": "a curl command that'll automatically do\neverything for us. I love it. Run that.", "start": 989.78, "duration": 4.08 }, { "text": "And then right here it tells us we need\nto add all this or just run this

command", "start": 994.07, "duration": 2.94 }, { "text": "to put this in our bash RC file. So we\ncan actually use the pie EMV command.", "start": 997.13, "duration": 4.17 }, { "text": "I'll just copy this, paste it,", "start": 1001.6, "duration": 1.65 }, { "text": "and then we'll type in\nsource B RC to refresh our", "start": 1004.72, "duration": 4.83 }, { "text": "terminal. And let's see\nif pi ENV works, PI ENV,", "start": 1009.55, "duration": 3.0 }, { "text": "we'll do a dash H to see if\nit's up and running. Perfect.", "start": 1012.94, "duration": 3.12 }, { "text": "Now let's make sure we have a version\nof Python install that we will work for", "start": 1016.15, "duration": 3.18 }, { "text": "most of our stuff. 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CD stable diff.", "start": 1044.71, "duration": 4.47 }, { "text": "And then we'll use this W get\ncommand to w get this BS script.", "start": 1049.57, "duration": 4.83 }, { "text": "We'll type it Ls to make\nsure it's there. There it is.", "start": 1055.15, "duration": 1.95 }, { "text": "Let's go ahead and make that sucker\nexecutable by typing in CH mod.", "start": 1057.37, "duration": 2.76 }, { "text": "We'll do a plus x and then web\nUI sh. Now it's executable.", "start": 1060.64, "duration": 4.83 }, { "text": "Now we can run it. Period\nslash web ui sh. Ready,", "start": 1065.68, "duration": 4.57 }, { "text": "set, go. This is going\nto do a lot of stuff.", "start": 1070.49, "duration": 3.33 }, { "text": "It's going to install everything\nyou need for open web ui.", "start": 1073.85, "duration": 1.8 }, { "text": "It's going to install PyTorch\nand\nndownload stable diffusion. It's awesome.", "start": 1076.25, "duration": 4.32 }, { "text": "Again, a little coffee break.\nOkay, that took a minute,", "start": 1081.23, "duration": 4.83 }, { "text": "a long time. I hope you\ngot plenty of coffee.", "start": 1086.24, "duration": 1.74 }, { "text": "Now it might not seem like it's ready,", "start": 1088.25, "duration": 1.71 }, { "text": "but it actually is running and you'll\nsee the URL pop up around here.", "start": 1090.29, "duration": 4.14 }, { "text": "It's kind of messed up, but it's\nrunning on port 78 60. Let's try it out.", "start": 1094.49, "duration": 4.2 }, { "text": "And this is fun. Oh my gosh.", "start": 1098.78, "duration": 2.79 }, { "text": "So local host 78 60,", "start": 1101.78, "duration": 3.03 }, { "text": "what you're seeing here is hard\nto explain. 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I barely know what I'm doing.", "start": 1161.21, "duration": 3.42 }, { "text": "But let me show you real quick how\nyou can easily integrate automatic", "start": 1164.78, "duration": 2.94 }, { "text": "1, 1, 1, 1. Did I have\nto do enough ones? I'm not sure.", "start": 1167.725, "duration": 2.905 }, { "text": "And they're stable diffusion\ninside Open Web ui.", "start": 1171.08, "duration": 2.79 }, { "text": "So it's just right here\nback at Open Web ui.", "start": 1174.05, "duration": 1.77 }, { "text": "If we go down to our little\nsettings here and go to settings,", "start": 1176.15, "duration": 2.82 }, { "text": "you'll see an option for images here. We\ncan put our automatic 1 1 1 1 base URL,", "start": 1179.06, "duration": 4.74 }, { "text": "which will simply be HTTP colon\nwhack wack", "start": 1184.25, "duration": 2.64 }, { "text": "1 2 7 0 0 1,", "start": 1187.52, "duration": 2.07 }, { "text": "which is the same as saying\nlocal host Port 78. 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It's so fun.", "start": 1267.51, "duration": 4.8 }, { "text": "Now this video is getting way too long.", "start": 1272.55, "duration": 1.32 }, { "text": "but there are still two more\nthings I want to show you.", "start": 1273.87, "duration": 1.59 }, { "text": "I'm going to do that really quickly\nright now. The first one is,", "start": 1275.46, "duration": 2.4 }, { "text": "it's just magic. Check it out. There's\nanother option here inside Open Web ui.", "start": 1278.22, "duration": 3.96 }, { "text": "a little section right here\ncalled Documents. 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Oh, there we go.\nAnd I'm just scratching the surface.", "start": 1312.725, "duration": 4.255 }, { "text": "Now the second thing I want to show you,\nlast thing. I am a huge obsidian nerd.", "start": 1317.04, "duration": 4.8 }, { "text": "It's my notes application.\nIt's what I use for everything.", "start": 1321.9, "duration": 2.19 }, { "text": "It's been very recent. I haven't\nmade a video about it, but I plan to.", "start": 1324.09, "duration": 2.58 }, { "text": "But one of the cool things about this,", "start": 1326.79, "duration": 1.44 }, { "text": "this very local private notes taking\napplication is that you can add your own", "start": 1328.29, "duration": 4.44 }, { "text": "local GBT to it, like what we\njust deployed. Check this out.", "start": 1332.76, "duration": 3.48 }, { "text": "I'm going to go to settings. I'll go\nto\ncommunity plugins. I'll browse for one.", "start": 1336.6, "duration": 3.51 }, { "text": "I'm going to search for one\ncalled B-M-O-B-M-O Chatbot.", "start": 1340.68, "duration": 3.15 }, { "text": "I'm going to install that, enable it.\nAnd then I'm going to go to settings.", "start": 1344.37, "duration": 3.45 }, { "text": "I'll have BMO chatbots. And right\nwhere I can have an Alama connection.", "start": 1348.03, "duration": 3.54 }, { "text": "which is going to connect\nto let's say Terry.", "start": 1351.69, "duration": 2.19 }, { "text": "So I'll connect 'em to Terry and I'll\nchoose my model. I'll use Llama two,", "start": 1354.15, "duration": 4.56 }, { "text": "why not? And now right here in my note,", "start": 1358.77, "duration": 2.82 }, { "text": "I can have a chat bot come right\nover here to the side and say like,", "start": 1361.68, "duration": 3.96 }, { "text": "Hey, how's it going? And I can do\nthings like look at the help file,", "start": 1366.42, "duration": 3.33 }, { "text": "see what I can use here.\nOoh, turn on reference.", "start": 1369.75, "duration": 2.25 }, { "text": "So I'm going to say reference on.", "start": 1372.03, "duration": 1.05 }, { "text": "it's now going to reference\nthe current note

I'm in.", "start": 1374.52, "duration": 1.95 }, { "text": "Tell me about the system prompt.", "start": 1377.28, "duration": 4.68 }, { "text": "Yep, there it is.", "start": 1382.65, "duration": 0.72 }, { "text": "And it's actually going through and telling me about the note I'm in.", "start": 1383.37, "duration": 2.25 }, { "text": "So I have a chat bot right there,", "start": 1385.62, "duration": 1.44 }, { "text": "always available for me to ask questions about what I'm doing.", "start": 1387.24, "duration": 2.88 }, { "text": "And I can even go in here and go highlight this,", "start": 1390.125, "duration": 2.005 }, { "text": "do a little prompt,", "start": 1394.56, "duration": 1.32 }, { "text": "select generate it's generating right now and just generate some stuff for me.", "start": 1395.88, "duration": 3.66 }, { "text": "I'm going to undo that. Let me do another note.", "start": 1399.9, "duration": 2.28 }, { "text": "So I want to tell a story about a man in a dog suit.", "start": 1402.185, "duration": 2.065 }, { "text": "I'll quickly talk to my chat bot and start to do some stuff that's pretty crazy.", "start": 1405.87, "duration": 3.93 }, { "text": "And this I think for me is just scratching the surface of running local AI", "start": 1409.95, "duration": 4.71 }, { "text": "private in your home on your own hardware.", "start": 1415.08, "duration": 2.22 }, { "text": "This is seriously so powerful and I can't wait to do more stuff with this. Now.", "start": 1417.42, "duration": 3.09 }, { "text": "I would love to hear what you've done with your own projects.", "start": 1420.51, "duration": 2.37 }, { "text": "If you attempted this, if you have this running in your lab,", "start": 1422.91, "duration": 2.5 }, { "text": "let me know in the comments below. Also,", "start": 1425.41, "duration": 1.68 }, { "text": "do you know of any other cool projects I can try that I can make a video about?", "start": 1427.09, "duration": 3.3 }, { "text": "I will love to hear that. I think AI is just the coolest thing,", "start": 1430.39, "duration": 3.09 }, { "text": "but also privacy is a big concern for me.", "start": 1433.54, "duration": 2.34 }, { "text": "So to be able to run AI locally and play with it this way is just the best", "start": 1435.88, "duration": 4.98 }, { "text": "thing ever. Anyways, that's all I got.", "start": 1440.86, "duration": 1.68 }, { "text": "If you want to continue the conversation and talk more about this,", "start": 1442.63, "duration": 2.31 }, { "text": "please check out our Discord community.", "start": 1444.94, "duration": 1.41 }, { "text": "The best way to join that is to jump through our Network Check Academy", "start": 1446.62, "duration": 2.43 }, { "text": "membership, the free one. And if you do want to join the paid version,", "start": 1449.05, "duration": 3.18 }, { "text": "we do have some extra stuff for you there too,", "start": 1452.23, "duration": 1.5 }, { "text": "and it'll help support what we do here.", "start": 1453.82, "duration": 1.41 }, { "text": "But I'd love to hang out with you and talk more. That's all I got.", "start": 1455.38, "duration": 2.25 }, { "text": "I'll catch you guys next time. I.", "start": 1458.2, "duration": 0.965 } ]