Hello and Welcome to this short presentation about my final project. This project is part of a course about machine learning held by Meghan Kane at the university of applied sciene Darmstadt (Hochschule Darmstadt)

First I will talk about the 4 part or 4 stages that you can devide a Machine Learning project into. It is a useful method to start with when working with ML.

So the first step is the framing the problem step. Where you don't code or prepare data. This is more of the logical preparation where you think about what the essential problem of you project could be how you want to use your data and even if ML is the right solution or if you could use a different technologiy for your problem. In my case I didn't really have a problem I just wanted to get to know python and TensorFlow and be more confident in programming, so this was basically my specific problem.

If you found or collect your data it is time to prepare it so it is readable for a machine, you can find a lot of information for this on the web. In my I used a csv Dataset that I prepared manually in a couple of ways.

In the training part I used a sequential Model from TensorFlow and added several layers with the framework keras. When you use more layers the process is called Deep Learning. The outcome was actually pretty good for the wine type prediction. You can see the results on the right side. The prediction was 86 percent right and almost 14% wrong and 86% right.

If you are interested in classification ML project you can check out my git hub. There you can find conde and a more detailed description. Im also open to question and help if there are any further question. 😊