<p style="color:red; text-align:center">DISCORSO PPT DATA LEAGUE</p>

**Prima slide**: I'd like to start with a little introduction

**Seconda slide**: and i want to start with the context of the project: we know…

They are listed on the stock exchange and then each month they are required to furnish financial statements. So, there are thousands of transactions recorded in Microsoft Dynamics 365 by each sub-company every month.

**Terza slide**: So the idea and aim of the project is that it's possibile to perform a data analysis using tools like PowerBI, python or RStudio to identify…

Then it's possible to perform a Forecast prevision for enhanced financial closing efficiency and timely issue prevention.

Because, for example, in the middle of the month we might be interested to know the current status of the financial closing activity and predict how much work will need to be done to prevent problems.

**Quarta slide**: Now i would to talk about what i've done so far in this project.

**Quinta slide**: The main activities I was involved in were…

we'll see later what I mean..

**Sesta slide**: We can now see a short overview of forecasting and time series…

And the model behind forecasting

**Settima slide**: In the preprocessing and data extraction phase, the tables most impacted during financial closing activities were identified and they are.

**Ottava slide**: And more information obtained from other sql database tables was added to this transaction, like: GroupChartOfAccounts, which is the only information at the global level that tells you the nature of that account…

Finally, we can see all the various fields obtained for each transaction.

**Nona slide**: Then we identify the main activities regarding financial closing, That there are 14 in total, like...

**Decima slide**: To conclude, for each transaction we assigned a single closing activity. To do this, we focused on two different fields,…

**Undicesima slide**: But for some transactions we have a problem: because for some pairs of postingtype and journalcategory what activity closing we had to assign. And this problem affects about 3 million rows, which is 3% of the total dataset.

So I am trying to develop a **machine learning algorithm** to assign the closing activity for transactions with this problem. For now i'm trying, after a preprocessing phase and model selection, with algorithm like Multinomial Naive Bayes, logistic regression and finally i want try a neural network, which usually performs better than the others

**Ultima slide**: Then I am available and happy to listen, if you have any, to your advices, ideas and proposals to continue the thesis project. Thanks for your attention!