# **Introduction to Data Analytics– Personal course report**

**Note: *this report is not an exam*, and the answers do not directly affect your exercise points. Answer all questions in your own words, there are no wrong or right answers!**

**This personal report is required for passing this course! ☺**

## **What are your thoughts about data analytics in general?**

Data Analytics according to me seems to be one of the more interesting topics inside the computer science ecosystems as it always introduces new ways of thinking depending on different projects, while the underlying codes seem to be the same when plotting graphs and cleaning the data, its still comes off as something different from the previous attempted tasks.

## **What is easy in data analytics, what is difficult or complex?**

Plotting graphs seems to be the easiest part which means seaborn is quite interesting and easy while cleaning data can be considered as difficult as most of the times the data is quite extensive, and any wrong cleaning might lead to a wrong outcome and all the invested time and efforts can be wasted quite easily if said problem occurs.

## **What would you like to learn next in data analytics or data engineering?**

Any dataset related to finance and business can be quite beneficial for whoever is leaning data analytics for their day-to-day life as it can help them make good decisions financially and maybe even allow them to become self sufficient without needing to do a 9-5 job!

## **Can you use your data analytics skills in your current activities and/or hobbies? Or even in your work? Would you like to work as a professional data engineer in the future?**

I think becoming a data engineer is a way better future prospect as compared to a regular programmer or even a full stack developer although the job market mostly requires their applicants to be both, but my reasoning is because the new modern age of Ai works with data which makes the base for their softwares and as such, the demand for Data Engineers is going to increase in the coming years.

## **How do you understand the following concepts and/or technologies? In your own words, write about what you can do with them while performing data analytics, and where they are useful.**

* **NumPy, pandas, SciPy**  
  A way of working with the code in such a way that a person can run snippets of the code and not the whole file, this saves a lot of time and not much processing power is needed, this makes the whole process efficient. Numpy also adds the mathematical array factor to python allowing for more complex math problems to be solved. Pandas on the other hand allow for the cleaning and manipulation of datasets more thoroughly while also being extremely user friendly.

* **seaborn, matplotlib and other plotting/visualization modules**

These extensions allow python to express datasets in a visual manner, making it easier for data engineers to explain their findings to non-computer degree related personnel

* **Jupyter notebooks vs. traditional Python programming environments (e.g. PyCharm)**
* **Correlations and connections**
* **Data exploration and exploratory data analysis**
* **Data manipulation, management and combination**

## **Any other feedback considering the course itself or data analytics in general? Both positive and negative feedback is welcome!**

Thank you for this course! 😊