Reflection

In weeks 7 and 8, the curriculum will dive deep into the realm of Support Vector Machines (SVM). Initially, from sections 7.2 to 7.7, the course will introduce SVM as a powerful machine learning technique specifically tailored for scenarios where the output values of feature vectors are binary, i.e., belong to one of two possible categories. This segment will likely cover the foundational concepts, mathematical underpinnings, and the benefits of using SVM for classification tasks.

Following the theoretical exploration, the course will transition into a hands-on phase from sections 7.7 to 7.10. Here, participants will get acquainted with the practical aspects of SVM. Utilizing Python, one of the most popular programming languages for data science, learners will be guided through the process of implementing SVM. Both linear SVM, which is suitable for linearly separable data, and non-linear SVM, used for more complex, non-linearly separable datasets, will be covered. This segment will equip learners with the skills to not only understand SVM but also to apply it effectively in real-world scenarios using Python.

Quiz: