**A.A. 2022/2023**

**Deep Learning and Generative Models**

**Project assignment #12**

**Project objective**:

* Image classification with Stanford Cars

**Dataset**:

* Stanford Cars <https://pytorch.org/vision/stable/generated/torchvision.datasets.StanfordCars.html>

**Network model**:

* A CNN for image classification can be used for this task. Experiment with a custom one or finetuning a pretrained model (like resnet18, Vgg19 ecc)

**Detailed information**:

* train a model to classify the different types of cars that are present in the dataset
* several augmentation methods can be used to improve the results, experiment with them

**Additional notes**:

* evaluate the model False positive, False negative, True Positive and True negative visualizing the confusion matrix. Some classes are classified better than others?