Machine learning in iOS.

Rules for completing the course.

Rules for students who have access to an iPhone or who do not have access to an iPhone but want to build applications.

55p. - Applications made during classes:

1. 15 points for active participation in classes.

2. (10p.) Applications from Chapter 2:
- HealthySnacks with Vision,
- MultiSnacks with Vision,
- Healthy Snacks without Vision.

3. (5p.) Demo applications from Chapter 10 (run and analyze them):
- ObjectDetection,
- Segmentation.

4. (10p.) GestureDataRecorder from Chapter 11.

5. (15p.) GestureIt from Chapter 12 and 13.

45p. - "Final Project" – version 1.
The following versions of applications can be created as the final project:

1. (10p.) Challenge 1 from Chapter 2.

2. (10p.)
   TuriCreate, Challenge 3 from Chapter 10.
   OR:
   Build a neural network in the Google Colab environment.

3. (15p.) Challenge 1 from Chapter 8.

4. (10p.) Challenge 1 from Chapter 13. // or Challenge 2 from Chapter 8.

45p. - "Final Project" – version 2.
Create your own application with the use of ML (topics to be agreed with the teacher).

The presentation and defense of the project will be considered an exam.

Rules for students who do not have access to an iPhone.

55p. - Applications or other activities:

1. 15 points for active participation in classes.

2. (10p.) Applications from Chapter 2:
- HealthySnacks with Vision,
- MultiSnacks with Vision,
- Healthy Snacks without Vision.

3. (5p.) Challenge 1 from Chapter 6.

4. (10p.) All the code from Chapter 7 (Going Convolutional).

5. (10p.) All the code from Chapter 8 (Advanced Convnets).

6. (5p.) Create a neural network with the use of PyTorch.

45p. - "Final Project" – version 1.

1. (10p.) Challenge 1 from Chapter 2.

5. (10p.)
   TuriCreate, Challenge 3 from Chapter 10.
   OR:
   Build a neural network in the Google Colab environment.

2. (15p.) Challenge 1 from Chapter 8.

3. (10p.) Challenge 2 from Chapter 8.

45p. - "Final Project" – version 2.
Create your own application with the use of ML (topics to be agreed with the teacher).

The presentation and defense of the project will be considered an exam.