**Dataset:**

**https://drive.google.com/file/d/1iNwpwoIdyXJzzq16WhAG\_nXp9Gdd7ZSJ/view?usp=sharing**

**Dataset description:**

<https://www.dbs.ifi.lmu.de/research/outlier-evaluation/DAMI/semantic/Cardiotocography/Cardiotocography_22.html>

Task:

1. EDA/ data preparation - 2
2. Feature engineering (non-linear transformations) - 2
3. Mahalanobis rule - 1
4. Supervised models
   1. SVM - 1
   2. Logreg - 1
   3. KNN - 1
5. Unsupervised models (with tuning hyperparams):
   1. One-class SVM - 2
   2. Isolation Forest - 2
6. Choose metrics and explain the choice. Compare different models and select the best (separately for supervised and unsupervised approaches) - 2
7. General points:
   1. Code quality (no duplicated blocks, readable variables, ) - 1
   2. Visualization - 1
   3. Analysis and comments – 2

Total: 18