**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>

**Evaluation criteria (100% in total):**

1. EDA/ data preparation **(15%)**
2. Feature engineering (+non-linear transformations) **(15%)**
3. Mahalanobis rule  **(5%)**
4. Supervised models **(15% max)**
   1. SVM (5%)
   2. Logreg (5%)
   3. KNN (5%)
5. Unsupervised models (with tuning hyperparams) **(20% max)**:
   1. One-class SVM (10%)
   2. Isolation Forest (10%)
6. Choose metrics and explain the choice. Compare different models and select the best (separately for supervised and unsupervised approaches) **(10%)**
7. General points **(20% max)**
   1. Code quality: no duplicated blocks, readable variables, etc (5%)
   2. Visualization (5%)
   3. Analysis and comments (10%)