

Program codes

Private Data

URL	Description
1 Random Forest.ipynb	This code contains: 1. Data preparation and preprocessing; 2. Feature selection and transformation; 3. Tuning and training Random Forest; 4. Training Random Forest on data without B/W-tests; 5. Model evaluation and calculation of confidence intervals.
2 CNN3 CNN6 CNN8.ipynb	This code contains: 1. Data preparation and preprocessing; 2. Feature selection and transformation; 3. Tuning and training CNN3, CNN6 and CNN8.
3 CNN3 CNN6 CNN8 no BW-tests.ipynb	This code contains: 1. Tuning and training CNN3, CNN6 and CNN8 on data without B/W-tests.
4 DenseNet-6.ipynb	This code contains: 1. Tuning and training DenseNet-6.
5 DenseNet-6 no BW-tests.ipynb	This code contains: 1. Tuning and training DenseNet-6 on data without B/W-tests.
6 DenseNet-8.ipynb	This code contains: 1. Tuning and training DenseNet-8.
7 DenseNet-8 no BW-tests.ipynb	This code contains: 1. Tuning and training DenseNet-8 on data without B/W-tests.
8 F-DenseNet-6 part1.ipynb 9 F-DenseNet-6 part2.ipynb	This code contains: 1. Tuning and training F-DenseNet-6.
10 F-DenseNet-6 no BW-tests.ipynb	This code contains: 1. Tuning and training F-DenseNet-6 on data without B/W-tests.
11 F-DenseNet-8 part1.ipynb 12 F-DenseNet-8 part2.ipynb 13 F-DenseNet-8 part3.ipynb	This code contains: 1. Tuning and training F-DenseNet-8.
14 F-DenseNet-8 no BW-tests.ipynb	This code contains: 1. Tuning and training F-DenseNet-8 on data without B/W-tests.
15 SpiderNet-6.ipynb	This code contains: 1. Tuning and training SpiderNet-6.
16 SpiderNet-6 no BW-tests.ipynb	This code contains: 1. Tuning and training SpiderNet-6 on data without B/W-tests.
17 SpiderNet-8.ipynb	This code contains: 1. Tuning and training SpiderNet-8.
18 SpiderNet-8 no BW-tests.ipynb	This code contains: 1. Tuning and training SpiderNet-8 on data without B/W-tests.
19 Models Evaluation.ipynb	This code contains: 1. Model evaluation for CNN3, CNN6, CNN8, DenseNet-6, DenseNet-8, F-DenseNet-6, F-DenseNet-8, SpiderNet-6 and SpiderNet-8. 2. Calculation of confidence intervals for all results.

Public Data

The Open Dataset is available at:

<https://www.kaggle.com/datasets/gmhost/atec-anti-fraud>

URL	Description
1 Random Forest.ipynb	This code contains: <ol style="list-style-type: none">1. Data preparation and preprocessing;2. Feature selection and transformation;3. Tuning and training Random Forest;4. Training Random Forest on data without B/W-tests;5. Model evaluation and calculation of confidence intervals.
2 CNN3_CNN6_CNN8.ipynb	This code contains: <ol style="list-style-type: none">1. Data preparation and preprocessing;2. Feature selection and transformation;3. Tuning and training CNN3, CNN6 and CNN8.
3 DenseNet-6.ipynb	This code contains: <ol style="list-style-type: none">1. Tuning and training DenseNet-6.
4 DenseNet-8.ipynb	This code contains: <ol style="list-style-type: none">1. Tuning and training DenseNet-8.
5 F-DenseNet-6_part1.ipynb 6 F-DenseNet-6_part2.ipynb 7 F-DenseNet-6_part3.ipynb	This code contains: <ol style="list-style-type: none">1. Tuning and training F-DenseNet-6.
8 F-DenseNet-8_part1.ipynb 9 F-DenseNet-8_part2.ipynb 10 F-DenseNet-8_part3.ipynb	This code contains: <ol style="list-style-type: none">1. Tuning and training F-DenseNet-8.
11 SpiderNet-6.ipynb	This code contains: <ol style="list-style-type: none">1. Tuning and training SpiderNet-6.
12 SpiderNet-8.ipynb	This code contains: <ol style="list-style-type: none">1. Tuning and training SpiderNet-8.
13 Models_Evaluation.ipynb	This code contains: <ol style="list-style-type: none">1. Model evaluation for CNN3, CNN6, CNN8, DenseNet-6, DenseNet-8, F-DenseNet-6, F-DenseNet-8, SpiderNet-6 and SpiderNet-8;2. Calculation of confidence intervals for all results.