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 5000
 56
 4096
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 12
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 MAPE
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 80%
 20%
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 ?
 ?
 $m \in$
 $\{2, 4, 8, 16, 32, 64, 128, 256\}^1$
 y
 y
 y

$$LossMAE = \frac{1}{N} \sum_{i=1}^N |x^{(i)} - y^{(i)}|.$$

2

$$LossMAPE = \frac{1}{N} \sum_{i=1}^N \frac{|x^{(i)} - y^{(i)}|}{x^{(i)}}.$$

$x^{(i)}$
 $\bar{x}^{(i)}$

$$LossMAAE = \frac{1}{N} \sum_{i=1}^N \frac{|x^{(i)} - y^{(i)}|}{\bar{x}^{(i)}}.$$

Size
 $m =$
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FT9 – FT10
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4096
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Accuracy Precision Specificity Sensitivity F-Measure
 $\frac{TP+TN}{TP+TN+FP+FN}$ $\frac{TP}{TP+FP}$ $\frac{TN}{TN+FP}$ $\frac{TP}{FN+TP}$ $\frac{2 \cdot \text{Precision} \cdot \text{Sensitivity}}{\text{Sensitivity} + \text{Precision}}$

10
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921600
3600s
per_file.pdf Accumulated variance per sample, considering a sample as each recording file.
per_person.pdf Accumulated variance per sample, considering a sample as being all the recordings of each person.
all.pdf Total accumulated variance in the first ten people of the dataset, as granular as possible.

10
FT9 –
FT10
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5

Dimension k_neighbor svm_linear svm_radial decision_tree random_forest multi_layer ada_boost gaussian
2
4
8
16
32
64
128

Dimension k_neighbor svm_linear svm_radial decision_tree random_forest multi_layer ada_boost gaussian
2
4
8
16
32
64
128

2.pdf Classification Accuracy Result of AE – CDNN – MAE for Dataset1[?], Reproduced Original and Difference.
3.pdf Classification Accuracy Result of AE – CDNN – MAE for Dataset1[?], Reproduced Original and Difference.

Dimension k_neighbor svm_linear svm_radial decision_tree random_forest multi_layer ada_boost gaussian
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128

Dimension k_neighbor svm_linear svm_radial decision_tree random_forest multi_layer ada_boost gaussian
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128

4.pdf Classification Accuracy Result of AE – CDNN – MAE for Dataset2[?], Reproduced Original and Difference.
5.pdf Classification Accuracy Result of AE – CDNN – MAE for Dataset2[?], Reproduced Original and Difference.

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5-foldk_neighborssvm_linearsvm_radialdecision_treerandom_forestmulti_layerada_boost gaussian_nb
5-foldk_neighborssvm_linearsvm_radialdecision_treerandom_forestmulti_layerada_boost gaussian_nb
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sian_nb
svm_linear
svm_radial
multi_layer

5-foldk_neighborssvm_linearsvm_radialdecision_treerandom_forestmulti_layerada_boost gaussian_nb
5-foldk_neighborssvm_linearsvm_radialdecision_treerandom_forestmulti_layerada_boost gaussian_nb

$\eta =$
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distribution₄.pdf Feature Distribution of AE – CDNN – MAE and AE – CDNN – MAE, with, in the first dataset.

$F_{measure}$
 ROC^{-}
 AUC

k
Dimensionk_neighborssvm_linearsvm_radialdecision_treerandom_forestmulti_layerada_boostgaussian

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Dimensionk_neighborssvm_linearsvm_radialdecision_treerandom_forestmulti_layerada_boostgaussian

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Dimensionk_neighborssvm_linearsvm_radialdecision_treerandom_forestmulti_layerada_boostgaussian

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