|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Single Fold | | | 5-Fold | | |
|  |  |  |  |  |  |  |
| Raw Features – no PCA | | | | | | |
| Full - Cov |  |  | 0.346 | 0.343 |  |  |
| Diag -Cov | 0.527 |  |  | 0.548 |  |  |
| Tied Full-Cov | 0.355 |  |  | 0.359 |  |  |
| Tied Diag- Cov | 0.521 |  |  | 0.543 |  |  |
| Gaussianized Features – no PCA | | | | | | |
| Full - Cov | 0.277 |  |  | 0.306 |  |  |
| Diag -Cov | 0.497 |  |  | 0.516 |  |  |
| Tied Full-Cov | 0.355 |  |  | 0.359 |  |  |
| Tied Diag- Cov | 0.521 |  |  | 0.543 |  |  |
| Raw Features – PCA (m=9) | | | | | | |
| Full - Cov | 0.455 |  |  | 0.495 |  |  |
| Diag -Cov | 0.541 |  |  | 0.570 |  |  |
| Tied Full-Cov | 0.55 |  |  | 0.359 |  |  |
| Tied Diag- Cov | 0.521 |  |  | 0.543 |  |  |
| Gaussianized Features – PCA (m=9) | | | | | | |
| Full - Cov | 0.300 |  |  | 0.336 |  |  |
| Diag -Cov | 0.392 |  |  | 0.407 |  |  |
| Tied Full-Cov | 0.421 |  |  | 0.359 |  |  |
| Tied Diag- Cov | 0.521 |  |  | 0.543 |  |  |
| Raw Features – PCA (m=8) | | | | | | |
| Full - Cov | 0.490 |  |  | 0.537 |  |  |
| Diag -Cov | 0.606 |  |  | 0.611 |  |  |
| Tied Full-Cov | 0.585 |  |  | 0.359 |  |  |
| Tied Diag- Cov | 0.521 |  |  | 0.543 |  |  |
| Gaussianized Features – PCA (m=9) | | | | | | |
| Full - Cov | 0.345 |  |  | 0.385 |  |  |
| Diag -Cov | 0.427 |  |  | 0.458 |  |  |
| Tied Full-Cov | 0.434 |  |  | 0.359 |  |  |
| Tied Diag- Cov | 0.521 |  |  | 0.543 |  |  |

------> pi = 0.9

**\*\*\* minDCF - RAW FEATURES - NO PCA \*\*\***

[Single Fold] -  MVG:  0.8245314330339711

[5-Folds]  -  MVG:  0.9061990212071779

[Single Fold]  - MVG with Diag cov:  0.9375122022647404

[5- Fold] - MVG with Diag cov:  0.9730831973898859

[Single Fold] - Tied MVG:  0.8365384615384616

[5- Fold] - Tied MVG:  0.8278955954323002

[Single Fold] - Tied MVG with Diag Cov:  0.9831730769230769

[5 Fold] - Tied MVG with Diag Cov:  0.9526916802610115

**\*\*\* minDCF - RAW FEATURES -  PCA (m=9) \*\*\***

[Single Fold] -  MVG:  0.8846275868801249

[5-Folds]  -  MVG:  0.9755301794453507

[Single Fold]  - MVG with Diag cov:  0.9471153846153845

[5- Fold] - MVG with Diag cov:  0.9885807504078302

[Single Fold] - Tied MVG:  0.9399160484185866

[5- Fold] - Tied MVG:  0.8278955954323002

[Single Fold] - Tied MVG with Diag Cov:  0.9831730769230769

[5 Fold] - Tied MVG with Diag Cov:  0.9526916802610115

**\*\*\* minDCF - RAW FEATURES -  PCA (m=8) \*\*\***

[Single Fold] -  MVG:  0.9303250683326826

[5-Folds]  -  MVG:  0.9518760195758565

[Single Fold]  - MVG with Diag cov:  0.9663705583756346

[5- Fold] - MVG with Diag cov:  0.9632952691680261

[Single Fold] - Tied MVG:  0.9471153846153845

[5- Fold] - Tied MVG:  0.8278955954323002

[Single Fold] - Tied MVG with Diag Cov:  0.9831730769230769

[5 Fold] - Tied MVG with Diag Cov:  0.9526916802610115

**\*\*\* minDCF - GAUSSIANIZED FEATURES - NO PCA \*\*\***

[Single Fold] -  MVG:  0.8245314330339711

[5-Folds]  -  MVG:  0.871125611745514

[Single Fold]  - MVG with Diag cov:  0.9639423076923077

[5- Fold] - MVG with Diag cov:  0.9755301794453507

[Single Fold] - Tied MVG:  0.9062988090589612

[5- Fold] - Tied MVG:  0.8278955954323002

[Single Fold] - Tied MVG with Diag Cov:  0.9831730769230769

[5 Fold] - Tied MVG with Diag Cov:  0.9526916802610115

**\*\*\* minDCF - GAUSSIANIZED FEATURES -  PCA m=9 \*\*\***

[Single Fold] -  MVG:  0.8582584927762592

[5-Folds]  -  MVG:  0.898042414355628

[Single Fold]  - MVG with Diag cov:  0.8990750683326825

[5- Fold] - MVG with Diag cov:  0.8996737357259381

[Single Fold] - Tied MVG:  0.903882760640375

[5- Fold] - Tied MVG:  0.8278955954323002

[Single Fold] - Tied MVG with Diag Cov:  0.9831730769230769

[5 Fold] - Tied MVG with Diag Cov:  0.9526916802610115

**\*\*\* minDCF - GAUSSIANIZED FEATURES -  PCA m=8 \*\*\***

[Single Fold] -  MVG:  0.8678738773916441

[5-Folds]  -  MVG:  0.8923327895595433

[Single Fold]  - MVG with Diag cov:  0.9278968176493556

[5- Fold] - MVG with Diag cov:  0.900489396411093

[Single Fold] - Tied MVG:  0.8534019914096056

[5- Fold] - Tied MVG:  0.8278955954323002

[Single Fold] - Tied MVG with Diag Cov:  0.9831730769230769

[5 Fold] - Tied MVG with Diag Cov:  0.9526916802610115