HMM Training

CMPT 318 Final Project

Phase 2 – Approach 2

**NEW DATA – V2**

Model 1: WDD n = 8:

converged at iteration 140 with logLik: -42851.22

BIC 1: 86660.019764536

Model 2 WDN n = 8:

converged at iteration 186 with logLik: -109943

BIC 2: 220861.41995355

Model 3 WED n = 8:

converged at iteration 232 with logLik: -18126.44

BIC 3: 37137.5723328698

Model 4 WEN n = 8:

converged at iteration 351 with logLik: -52612.54

BIC 4: 106127.823611017

Model 1: WDD n = 9:

converged at iteration 163 with logLik: -48483.91

BIC 1: 98155.7081049636

Model 2 WDN n = 9:

converged at iteration 241 with logLik: -102960.3

BIC 2: 207130.572854116

Model 3 WED n = 9:

converged at iteration 188 with logLik: -15781.98

BIC 3: 32661.4416417208

Model 4 WEN n = 9:

converged at iteration 197 with logLik: -49810.73

BIC 4: 100741.321382513

Model 1: WDD n = 10:

converged at iteration 171 with logLik: -44583.02

BIC 1: 90608.4807221735

Model 2 WDN n = 10:

converged at iteration 335 with logLik: -99712.26

BIC 2: 200893.685661372

Model 3 WED n = 10:

converged at iteration 236 with logLik: -14880.34

BIC 3: 31093.3409396417

Model 4 WEN n = 10:

converged at iteration 253 with logLik: -48388.65

BIC 4: 98137.1335284124

Model 1: WDD n = 11:

converged at iteration 166 with logLik: -37699.9

BIC 1: 77121.0271400532

Model 2 WDN n = 11:

converged at iteration 255 with logLik: -94946.56

BIC 2: 191646.232620702

Model 3 WED n = 11:

converged at iteration 167 with logLik: -13361.51

BIC 3: 28313.2502996042

Model 4 WEN n = 11:

converged at iteration 274 with logLik: -46880.86

BIC 4: 95384.381939411

Model 1: WDD n = 12:

converged at iteration 280 with logLik: -41791.23

BIC 1: 85606.7151687148

Model 2 WDN n = 12:

converged at iteration 311 with logLik: -92742.45

BIC 2: 187546.667084189

Model 3 WED n = 12:

converged at iteration 256 with logLik: -11494.34

BIC 3: 24858.8787668425

Model 4 WEN n = 12:

converged at iteration 449 with logLik: -45053.86

BIC 4: 92016.0659434929

Model 1: WDD n = 13:

BIC 1: 69214.798407353

Model 2 WDN n = 13:

converged at iteration 279 with logLik: -87007.95

BIC 2: 176411.00119047

Model 3 WED n = 13:

BIC 3: 25171.4371228603

Model 4 WEN n = 13:

converged at iteration 499 with logLik: -43218.95

BIC 4: 88654.7720464263

Model 1: WDD n = 14:

converged at iteration 455 with logLik: -32667.52

BIC 1: 68038.1066674329

Model 2 WDN n = 14:

converged at iteration 435 with logLik: -82261.35

BIC 2: 167275.830707886

Model 3 WED n = 14:

converged at iteration 209 with logLik: -9407.503

BIC 3: 21312.3292066653

Model 4 WEN n = 14:

BIC 4: 87345.0073913223

Model 1: WDD n = 15:

BIC 1: 60407.2421092018

Model 2 WDN n = 15:

converged at iteration 265 with logLik: -78718.71

BIC 2: 160573.268470451

Model 3 WED n = 15:

converged at iteration 260 with logLik: -6460.026

BIC 3: 15764.5385611629

Model 4 WEN n = 15:

converged at iteration 471 with logLik: -41856.9

BIC 4: 86616.3181314575

Model 1: WDD n = 16:

converged at iteration 339 with logLik: -25605.89

BIC 1: 54690.6043873212

Model 2 WDN n = 16:

BIC 2: 160190.336765815

Model 3 WED n = 16:

BIC 3: 16013.9093578581

Model 4 WEN n = 16:

BIC 4: 66846.5711302046

Model 1: WDD n = 17:

BIC 1: 44045.1170763371

Model 2 WDN n = 17:

BIC 2: 150353.479969235

Model 3 WED n = 17:

converged at iteration 389 with logLik: -4465.711

BIC 3: 12537.4227337418

Model 4 WEN n = 17:

BIC 4: 80883.8753040973

Model 1: WDD n = 18:

converged at iteration 349 with logLik: -10533.81

BIC 1: 25419.1911161943

Model 2 WDN n = 18:

BIC 2: 144450.034552772

Model 3 WED n = 18:

BIC 3: 9107.60754981024

Model 4 WEN n = 18:

converged at iteration 477 with logLik: -38457.74

BIC 4: 81017.8514803798