**The New Dataset**

The Parkinson's Telemonitoring Dataset, which was obtained from the UCI Machine Learning Repository, is the novel dataset used in this investigation. Athanasios Tsanas and Max A. Little, working with doctors at the University of Oxford, first put it together. 42 patients with early-stage Parkinson's disease provided biological voice measures for the dataset. It has two clinical scores that are used to gauge the disease's progression: the motor Unified Parkinson's Disease Rating Scale (UPDRS) and the total Unified Parkinson's Disease Rating Scale (total_UPDRS).

- **Type of Data:** Time-series, longitudinal clinical data
- **Number of Instances:** 5,875
- **Number of Features:** 16 biomedical voice features + 2 UPDRS scores
- **Labeling Method:** Binary classification label was derived using the median of motor_UPDRS
- **Use Case:** This dataset enables longitudinal modeling and prediction of Parkinson's progression using real-world data.

**Source:** https://archive.ics.uci.edu/dataset/222/parkinson+s+telemonitoring

| subject# | age | sex | test_time | motor_UPDRS | total_UPDRS | Jitter(%) | Jitter(Abs) | Jitter:RAP | Jitter:PPQ5 | Jitter:DDP | Shimmer | Shimmer(dB) | Shimmer:APQ3 | Shimmer:APQ5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 72 | 0 | 5.6431 | 28.199 | 34.398 | 0.00662 | 3.38e-05 | 0.00401 | 0.00317 | 0.01204 | 0.02565 | 0.23 | 0.01438 | 0.01309 |
| 1 | 72 | 0 | 12.666 | 28.447 | 34.894 | 0.003 | 1.68e-05 | 0.00132 | 0.0015 | 0.00395 | 0.02024 | 0.179 | 0.00994 | 0.01072 |
| 1 | 72 | 0 | 19.681 | 28.695 | 35.389 | 0.00481 | 2.462e-05 | 0.00205 | 0.00208 | 0.00616 | 0.01675 | 0.181 | 0.00734 | 0.00844 |
| 1 | 72 | 0 | 25.647 | 28.905 | 35.81 | 0.00528 | 2.657e-05 | 0.00191 | 0.00264 | 0.00573 | 0.02309 | 0.327 | 0.01106 | 0.01265 |
| 1 | 72 | 0 | 33.642 | 29.187 | 36.375 | 0.00335 | 2.014e-05 | 0.00093 | 0.0013 | 0.00278 | 0.01703 | 0.176 | 0.00679 | 0.00929 |
| 1 | 72 | 0 | 40.652 | 29.435 | 36.87 | 0.00353 | 2.29e-05 | 0.00119 | 0.00159 | 0.00357 | 0.02227 | 0.214 | 0.01006 | 0.01337 |
| 1 | 72 | 0 | 47.649 | 29.682 | 37.363 | 0.00422 | 2.404e-05 | 0.00212 | 0.00221 | 0.00637 | 0.04352 | 0.445 | 0.02376 | 0.02621 |
| 1 | 72 | 0 | 54.64 | 29.928 | 37.857 | 0.00476 | 2.471e-05 | 0.00226 | 0.00259 | 0.00678 | 0.02191 | 0.212 | 0.00979 | 0.01462 |
| 1 | 72 | 0 | 61.669 | 30.177 | 38.353 | 0.00432 | 2.854e-05 | 0.00156 | 0.00207 | 0.00468 | 0.04296 | 0.371 | 0.01774 | 0.02134 |
| 1 | 72 | 0 | 68.688 | 30.424 | 38.849 | 0.00496 | 2.702e-05 | 0.00258 | 0.00253 | 0.00773 | 0.0361 | 0.31 | 0.0203 | 0.0197 |
| 1 | 72 | 0 | 75.653 | 30.67 | 39.34 | 0.00465 | 2.553e-05 | 0.00238 | 0.0026 | 0.00715 | 0.02132 | 0.188 | 0.01069 | 0.01214 |
| 1 | 72 | 0 | 82.653 | 30.917 | 39.834 | 0.00537 | 3.216e-05 | 0.00236 | 0.00278 | 0.00709 | 0.02377 | 0.282 | 0.01001 | 0.01375 |
| 1 | 72 | 0 | 89.635 | 31.309 | 40.412 | 0.00524 | 3.287e-05 | 0.00235 | 0.00251 | 0.00704 | 0.02493 | 0.24 | 0.01176 | 0.01395 |
| 1 | 72 | 0 | 96.633 | 31.776 | 41.034 | 0.00354 | 2.388e-05 | 0.00142 | 0.0015 | 0.00427 | 0.02107 | 0.171 | 0.00847 | 0.0104 |
| 1 | 72 | 0 | 103.64 | 32.243 | 41.657 | 0.0053 | 3.181e-05 | 0.00241 | 0.00231 | 0.00724 | 0.02791 | 0.291 | 0.0131 | 0.0126 |
| 1 | 72 | 0 | 110.65 | 32.71 | 42.28 | 0.00456 | 2.908e-05 | 0.00152 | 0.00194 | 0.00457 | 0.02878 | 0.264 | 0.01379 | 0.01494 |
| 1 | 72 | 0 | 117.66 | 33.178 | 42.904 | 0.00693 | 3.93e-05 | 0.00329 | 0.00285 | 0.00987 | 0.0281 | 0.274 | 0.01468 | 0.0143 |
| 1 | 72 | 0 | 124.64 | 33.643 | 43.524 | 0.00652 | 3.783e-05 | 0.00313 | 0.00311 | 0.0094 | 0.03011 | 0.32 | 0.01603 | 0.01733 |
| 1 | 72 | 0 | 131.64 | 34.109 | 44.146 | 0.00571 | 3.711e-05 | 0.00296 | 0.00293 | 0.00889 | 0.02522 | 0.223 | 0.0126 | 0.01466 |
| 1 | 72 | 0 | 139.69 | 34.646 | 44.861 | 0.00372 | 2.221e-05 | 0.00181 | 0.00195 | 0.00542 | 0.0323 | 0.288 | 0.01458 | 0.01732 |
| 1 | 72 | 0 | 145.64 | 35.043 | 45.39 | 0.00285 | 1.646e-05 | 0.00079 | 0.00109 | 0.00237 | 0.01524 | 0.133 | 0.00567 | 0.00682 |
| 1 | 72 | 0 | 152.64 | 35.509 | 46.013 | 0.00629 | 3.574e-05 | 0.00278 | 0.00293 | 0.00835 | 0.03791 | 0.338 | 0.01915 | 0.02174 |
| 1 | 72 | 0 | 159.64 | 35.976 | 46.635 | 0.00375 | 2.221e-05 | 0.00157 | 0.00175 | 0.00471 | 0.02477 | 0.244 | 0.0112 | 0.01283 |
| 1 | 72 | 0 | 174.66 | 36.977 | 47.97 | 0.00386 | 2.259e-05 | 0.00178 | 0.00195 | 0.00535 | 0.02842 | 0.295 | 0.01312 | 0.01514 |
| 1 | 72 | 0 | 5.6431 | 28.199 | 34.398 | 0.00348 | 1.547e-05 | 0.00124 | 0.00133 | 0.00372 | 0.01192 | 0.113 | 0.00411 | 0.00463 |
| 1 | 72 | 0 | 12.667 | 28.447 | 34.894 | 0.0095 | 5.884e-05 | 0.00446 | 0.00457 | 0.01337 | 0.03337 | 0.411 | 0.01828 | 0.01899 |
| 1 | 72 | 0 | 19.682 | 28.695 | 35.389 | 0.00401 | 2.413e-05 | 0.00149 | 0.00185 | 0.00446 | 0.01508 | 0.16 | 0.00623 | 0.00768 |
| 1 | 72 | 0 | 25.647 | 28.905 | 35.81 | 0.0034 | 2.05e-05 | 0.00178 | 0.00162 | 0.00533 | 0.01452 | 0.157 | 0.00711 | 0.00765 |