

Dataset	Type of Data	Columns / Signals	Labels	Common Applications
<b>WESAD</b> (Wearable Stress & Affect Detection)	Wearable physiological signals (time-series)	ECG, EDA, EMG, Respiration, Temperature, Accelerometer (x,y,z) from chest & wrist	0 = Baseline, 1 = Amusement, 2 = Stress (sometimes Meditation)	Stress detection, emotion recognition
<b>MIMIC-III</b>	ICU Electronic Health Records (EHR) + time-series	Demographics (age, gender, ethnicity), Vitals (HR, BP, SpO <sub>2</sub> , Temp), Labs (WBC, Lactate, Glucose), Medications, Procedures, Clinical Notes	Diagnoses (ICD-9), Mortality, Outcomes	Sepsis prediction, mortality risk, length-of-stay, treatment effect, clinical NLP
<b>MIT-BIH Arrhythmia</b>	ECG time-series	2 ECG leads (MLII, V1)	Beat type (Normal, PVC, LBBB, RBBB, Paced, etc.), Rhythm annotations	Arrhythmia detection, heartbeat classification
<b>MHEALTH</b> (Mobile Health)	Wearable motion + ECG	Accelerometer (x,y,z), Gyroscope (x,y,z), Magnetometer (x,y,z) on chest/arm/ankle + ECG (2 channels)	Activity labels (walking, jogging, cycling, sitting, lying, stairs)	Activity recognition, human movement analysis
<b>Sleep-EDF</b> (Sleep European Data Format)	Polysomnography (PSG)	EEG (Fpz-Cz, Pz-Oz), EOG, EMG, ECG (in some versions)	Sleep stages (W, N1, N2, N3, REM), apnea/arousals in extended sets	Sleep staging, apnea detection, sleep disorder analysis