**1. PhysioNet**

* **Website**: <https://physionet.org/>
* **Content**: A large repository of free biomedical data, including ECG, EEG, and other physiological signals, along with patient metadata.
* **Use Case**: Excellent for biomedical signal processing (ECG/EEG), spectrum analysis, and clinical studies.

**2. MIMIC-III (Medical Information Mart for Intensive Care)**

* **Website**: https://physionet.org/content/mimiciii/1.4/
* **Content**: De-identified ICU patient data, including vital signs, laboratory results, and patient metadata.
* **Use Case**: Perfect for patient health metrics analysis and time-series studies in critical care settings.
* **Access**: Free, but requires registration and approval.

**3. OASIS (Open Access Series of Imaging Studies)**

* **Website**: <https://www.oasis-brains.org/>
* **Content**: Brain MRI data for subjects across a wide age range, including individuals with and without Alzheimer's disease.
* **Use Case**: Ideal for medical image processing and segmentation tasks focused on brain scans.
* **Access**: Free with registration.

**4. The Cancer Imaging Archive (TCIA)**

* **Website**: <https://www.cancerimagingarchive.net/>
* **Content**: A large archive of medical images (CT, MRI, PET) focused on cancer research.
* **Use Case**: Suitable for medical image analysis and cancer detection projects.
* **Access**: Free, registration required.

**5. eICU Collaborative Research Database**

* **Website**: <https://eicu-crd.mit.edu/>
* **Content**: De-identified ICU patient data, including demographics, vital signs, and treatments.
* **Use Case**: Useful for time-series analysis of health metrics and critical care monitoring.
* **Access**: Free, but requires data use agreement and approval.

**6. Kaggle Datasets**

* **Website**: https://www.kaggle.com/datasets
* **Content**: A wide range of free datasets, including healthcare datasets (e.g., heart disease, diabetes, medical imaging).
* **Use Case**: Perfect for analyzing health metrics, medical imaging, and building machine learning models in healthcare.
* **Access**: Free, requires a Kaggle account.

**7. NIH Chest X-ray Dataset**

* **Website**: https://nihcc.app.box.com/v/ChestXray-NIHCC
* **Content**: A dataset of over 100,000 chest X-ray images with labeled diagnoses (e.g., pneumonia, pleural effusion).
* **Use Case**: Ideal for image processing and classification tasks involving lung diseases.
* **Access**: Free, no special registration required.

**8. UK Biobank (Limited Access)**

* **Website**: <https://www.ukbiobank.ac.uk/>
* **Content**: A large dataset including health records, medical images (e.g., MRI), and genetic data.
* **Use Case**: Suitable for comprehensive health data analysis and medical image processing.
* **Access**: Free for approved academic or health research purposes, but requires application and approval.