

Datasets & Practice Platforms - for Python Data Scientist, AI, Machine Learning Practitioner

Getting your hands on **datasets** and knowing where to practice is crucial for building skills as a **Python Data Scientist, AI, and Machine Learning Practitioner**. Here's a **curated list of platforms and datasets** (organized by use case):

■ General Purpose Datasets

- [Kaggle Datasets](#) – Huge collection across domains; also lets you practice with notebooks & competitions.
 - [UCI Machine Learning Repository](#) – Classic datasets like Iris, Wine, Adult Income, etc.
 - [Google Dataset Search](#) – Search engine for datasets worldwide.
 - [Data.gov](#) – US Government open datasets.
 - [Awesome Public Datasets \(GitHub\)](#) – Curated list across multiple domains.
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✚ Healthcare / Medical Datasets

- [PhysioNet](#) – Physiological & clinical data (ECG, ICU data).
 - [MIMIC-III](#) – ICU patient data (needs credentialing).
 - [Kaggle Healthcare Datasets](#) – Medical images, patient data, genomics.
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⌚ Finance & Business Datasets

- [Yahoo Finance API](#) – Stock market data (easy Python integration).
 - [Quandl](#) – Financial, economic, alternative data.
 - [World Bank Data](#) – Global development indicators.
 - [FRED](#) – U.S. Federal Reserve economic data.
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📱 NLP (Text & Language) Datasets

- [Hugging Face Datasets](#) – NLP-focused, ready-to-use with `datasets` library.
- [IMDb Reviews](#) – Sentiment analysis dataset.

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- [**20 Newsgroups**](#) – Text classification.
 - [**Common Crawl**](#) – Massive web-scraped dataset.
 - [**SQuAD \(Stanford Question Answering Dataset\)**](#) – For Q&A models.
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Computer Vision / Image Datasets

- [**MNIST**](#) – Handwritten digits (classic).
 - [**CIFAR-10 & CIFAR-100**](#) – Small object recognition dataset.
 - [**ImageNet**](#) – Large-scale image dataset (used in deep learning benchmarks).
 - [**COCO Dataset**](#) – Object detection, segmentation.
 - [**Open Images Dataset**](#) – Large-scale annotated images.
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Geospatial & Environmental Datasets

- [**Google Earth Engine Datasets**](#) – Satellite imagery & environmental data.
 - [**NASA Earth Data**](#) – Climate, atmospheric, and remote sensing data.
 - [**OpenStreetMap**](#) – Geospatial map data.
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Practice Platforms for Projects & Competitions

- [**Kaggle**](#) – Competitions, datasets, kernels.
 - [**DrivenData**](#) – Competitions with a social good impact.
 - [**Zindi**](#) – Africa-focused AI/ML competitions.
 - [**Analytics Vidhya Hackathons**](#) – Industry-focused challenges.
 - [**AIcrowd**](#) – Research-oriented ML challenges.
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✓ These platforms give you **end-to-end practice**: from data cleaning → model building → deployment.