

PDM Benchmark

Initializing application...

Select Page

- Dataset Visualization
- Model Training
- Results Analysis

PDM Benchmark Tool v1.0

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PDM Benchmark Tool v1.0

(a)

Loaded 15 datasets



Dataset Visualization

Select Dataset

01 - Paderborn



Dataset Information

Name: Paderborn

Features: vibration, current, temperature, speed, torque, radial_load

Fault Types: normal, inner_race, outer_race, cage

Design Target: Fault diagnosis

Property: Multiple sensors

Sampling Rate: 64000 Hz

Duration: 4 sec

Description:

Paderborn University Bearing Dataset - High-resolution vibration and motor current signals for 26 damaged and 6 healthy bearing states under various operating conditions.



Feature-wise Distribution and Signals

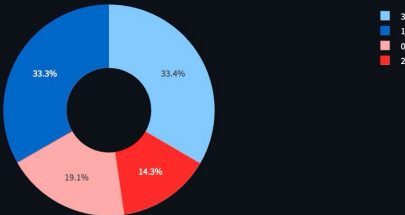
Select Feature

Feature 1



Class Distribution

Class Distribution



Deploy

(c)

Sample Time Domain Signals by Class

Choose Class

Class 0

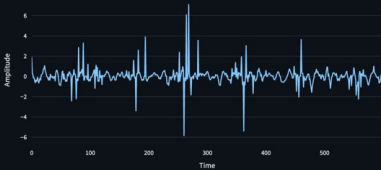
Select a sample from class 0

Sample 1

Selected Sample ID: 0

Time Domain Visualization

Time Domain Signal - Class: 0

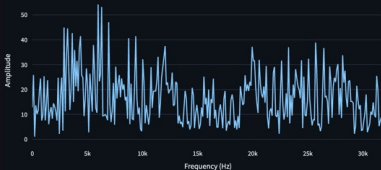


Frequency Domain Visualization

Feature 1

Use log scale for amplitude (Feature 1)

FFT Spectrum - Feature 1



Dominant Frequencies (Feature 1)

	Frequency (Hz)	Amplitude
0	5,973.3333	54.2128
1	6,293.3333	53.1817
2	6,933.3333	47.0734
3	2,880.0000	44.9337
4	3,200.0000	44.5762