# Identify exact points of variance between Kaggle signal and Codette baseline

# Calculate threshold for significant variance (e.g., >0.1 magnitude difference)

variance\_threshold = 0.1

significant\_indices = np.where(deviation > variance\_threshold)[0]

significant\_freqs = baseline\_freqs[significant\_indices]

significant\_devs = deviation[significant\_indices]

# Format results into a list of tuples (frequency, deviation)

variance\_points = list(zip(significant\_freqs, significant\_devs))

import pandas as pd

import ace\_tools as tools

# Create a DataFrame for display

variance\_df = pd.DataFrame(variance\_points, columns=["Frequency (Hz)", "Deviation Magnitude"])

tools.display\_dataframe\_to\_user(name="Significant Variance Points", dataframe=variance\_df)

Result

Frequency (Hz) Deviation Magnitude

0 0.00 1865.125194

1 0.01 794.566955

2 0.02 397.248478

3 0.03 264.121348

4 0.04 198.624544