

A deep learning package for audio analysis

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3. ENVISIONED WORKFLOW

Machine learning techniques, especially **deep learning**, have recently brought advances to computer vision, natural language processing and many other areas of research.

1. INTRODUCTION

Ketos is an **open-source Python library** developed by MERIDIAN¹ with the goal of making deep learning accessible to acousticians. Ketos helps you train deep learning models for solving challenging **acoustic detection and classification** tasks, e.g., passive acoustic monitoring of marine animals.



An open source (GPLv3) Python package providing:

- Signal processing
- Data management
- Neural network training

Acoustic detectors and classifiers capable



4. APPLICATIONS





Deep neural networks show great promise as versatile detectors and classifiers in underwater acoustics. We have developed an open-source Python package that facilitates the implementations of such tools. This package is under continued development and we welcome contributions and collaborations.

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