

Patefy: Python based library for tensor analysis
and tensor decomposition.

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Abstract

This library implements models and many algorithms for tensor analysis and tensor decomposition. It's intended to help new implementations in this area.

Chapter 1

Data Structure

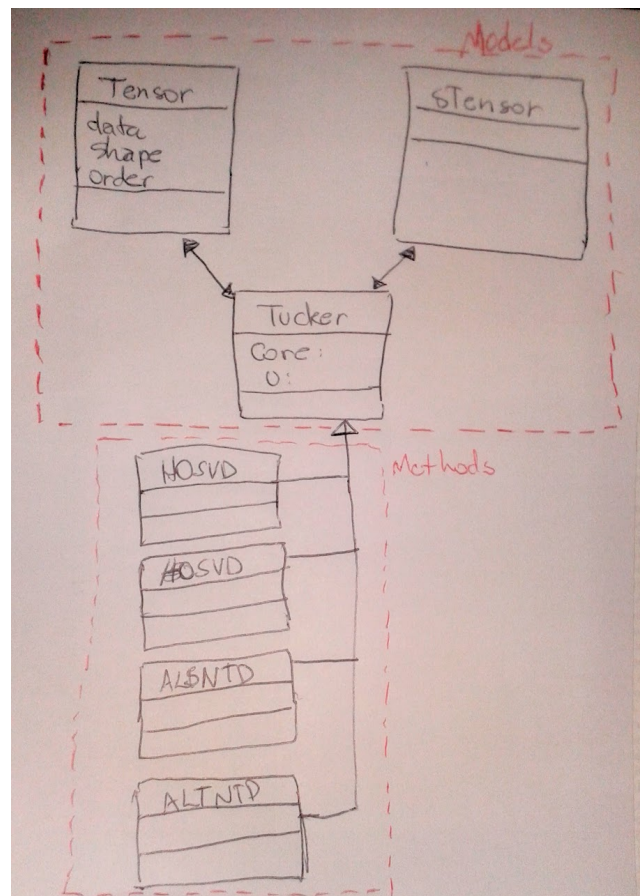


Figure 1.1: UML diagram from classes in Patefy.

1.1 Directory Organization of Patefy

This library is organized in directories as described in the follow:

- **patefy**
 - **models**
 - **methods**
 - **utils**
 - **tests**

1.2 Data Structure

1.3 Models

1.4 Methods

Chapter 2

Tutorial and examples