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basis_expansions: Basis Expansions for Regression.

The basis_expansions module contains classes for basis expansions to be used in
regression models.  Given a feature x, a basis expansions for that feature x is
a collection of functions

    f_0, f_1, f_2, ...

that are meant to be applied to the feature to construct derived features in a
regression model.  The functions in the expansions are often chosen to allow
the model to adapt to non-linear shapes in the predictor/response relationship.

Each class in this module conforms to the scikit-learn transformer api, and
work on both numpy.array and pandas.Series objects.

The following basis expansions are supported:
    - Binner: Cut the range of x into bins, and create indicator features for
      bin membership.
    - GaussianKernel: Use gassuian kernels around specified center points as
      features. Also known as "radial basis functions" in some circles.
    - Polynomial: Polynomial expansion of a given degree.
    - LinearSpline: Piecewise linear spline.
    - CubicSpline: Piecewise cubic spline.
    - NaturalCubicSpline: Piecewise cubic spline constrained to be linear
      outside of knots.
"""
import numpy as np
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