Cheat Sheet: Building Unsupervised Learning Models

Medel Name	Brief Description	Code Syntax
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Associated fuctions used

Method	Brief Description	Code Syntax
MAKE_BLOBS	GENERATES ISOTROPIC GAUSSIAN BLOOS FOR CLUSTERING.	from sklears.datasets import make_blobs X, y = make_blobs(n_mamples=100, conter=>2, random_state=42)
MULTIVARIATE_NORMAL	GENERATES SAMPLIS FROM A MULTIVARIATE NUMBER DISTRIBUTION.	from rumpy, random import multivariate_sermal samples = multivariate_sermal(mean=(0, 0), cov=(12, 0), (0, 11), size=100)
PLOTEX EXPRESS SCATTER_3D	CREATES A 3D SCATTER PLOT USING PLOTLY EXPRESS.	<pre>import plotly.express as px fig = px.scatter_3d[df, xm'x', ym'y', zm'z'] fig.show()</pre>
GIOPANDAS GEODATAFEAME	CREATES A GEODATAPHAME FROM A PANDAS DATAPHAME.	import geopandes as gpd gdf = gpd.Sectetaframe(df, poometryn'geometry')
GDOPANDAS.TO_CHS	TRANSFORMS THE COORDINATE REFERENCE SYSTEM OF A GEODATAFRAME.	gdf = gdf.te_crs(qopg=3857)
CONTEXTELY AUD_BANGMAP	ADDS A BASEMAP TO A GEODATAFRAME PLOT FOR CONTEXT.	import contentily as ctx as = gdf.glecf(tguize=(18, 10)) ctx.mdf_basemap(ax)
PCA.EXPLAINED_VARIANCE_BATTO_	RETURNS THE PROPORTION OF VARIANCE EXPLAINED BY EACH PRINCIPAL COMPONENT.	from skitears.decomposition import PCA pcm = PCAC_components=3) pcm = PCAC_components=3) variance_ratio = pcm.emplaince_variance_ratio_

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