**1- Features Selection**

* Correlation
* K-Nearest Neighbors (KNN)
* Chi-square
* Genetic Algorithm
* Feature Importance

**2-Handling the Missing Values**

* Mean
* Median
* Mode

**3- Handling Imbalanced Dataset**

**4-Treating Outliers**

**5- Scaling the Data**

* + Standardization
  + Normalization

**6- Converting Categorical Features into Numerical Features**

**Process Flow**

* Raw Data → Feature Engineering → Clean Data → Feature Selection → ML (Machine Learning)

**Exploratory Data Analysis (EDA)**

* Handling Missing Values: Strategies like mean, median, and mode.
* Transforming Categorical Features: Convert categorical data to numerical features.
* Handling Outliers: Use techniques like boxplots.

**Exploratory Data Analysis (EDA) and Feature Engineering Process**

A diagram of a model creation

Description automatically generated