

Feature Engineering Method	What	Why	Where
1. Feature Transformation	Transforms Numerical and non-numerical data	Performance, Runtime, Interpretability	Before model implementation
2. Dimensionality Reduction	Extracts a new feature subset	Runtime, Performance	Before model implementation
3. Feature Selection	Filter Methods	Interpretability, Performance	Before model implementation
	Wrapper Methods	Performance, Interpretability	Iterates over model implementation (i.e., before and after)
	Embedded Method: Regularization	Generalizability, Interpretability	Implemented with model implementation
	Embedded Method: Feature Importance	Interpretability, Performance	Implemented with model implementation