ML PIPELINE

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BSCS-3B

1 DATA COLLECTION

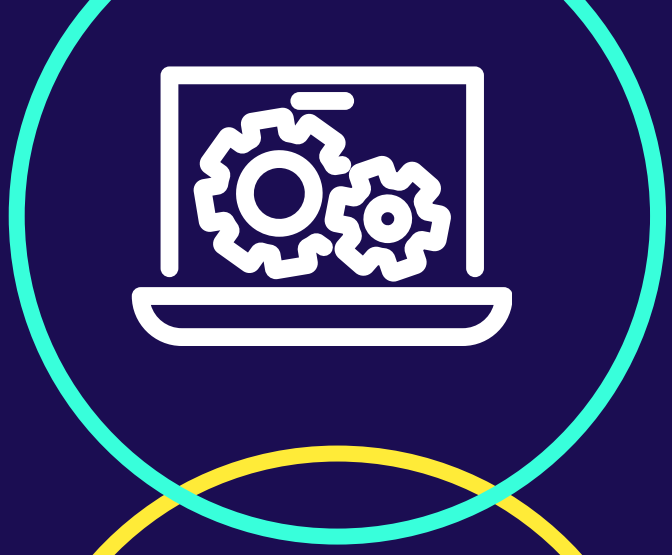
Gathering raw data from various sources(databases, APIs, etc) to serve as the foundation for building a machine learning model

2 PREPROCESSING

Cleaning and transforming raw data by handling missing values, encoding categories, and scaling features to make it suitable for training algorithms

3 TRAINING

Feeding the prepared data into a machine learning model to learn patterns and relationships, adjusting model parameters to minimize prediction errors



4 EVALUATION

Assessing the trained model’s performance using metrics (accuracy, precision, F1-score, etc) on unseen data to ensure it generalizes well and meets the objectives

5 DEPLOYMENT

Putting the trained model into production so it can make real-time or batch predictions on new data, often via APIs, cloud services, or embedded systems.