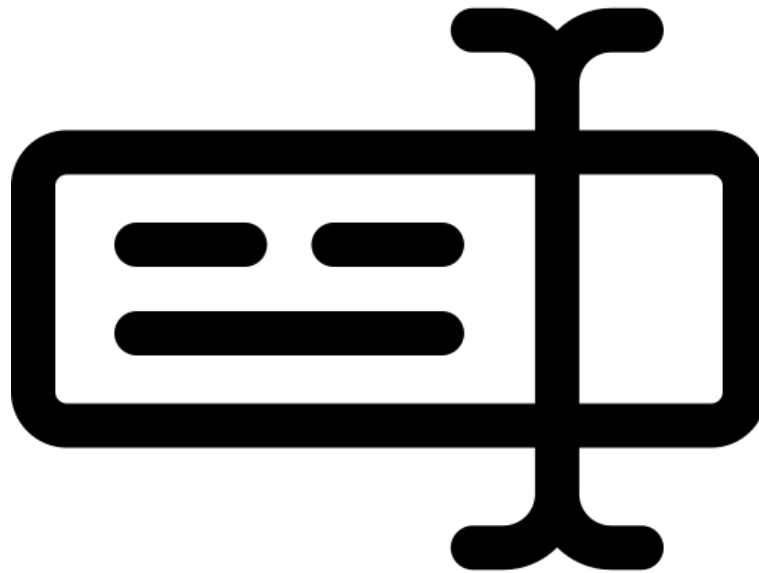


# Arabic Autocomplete System

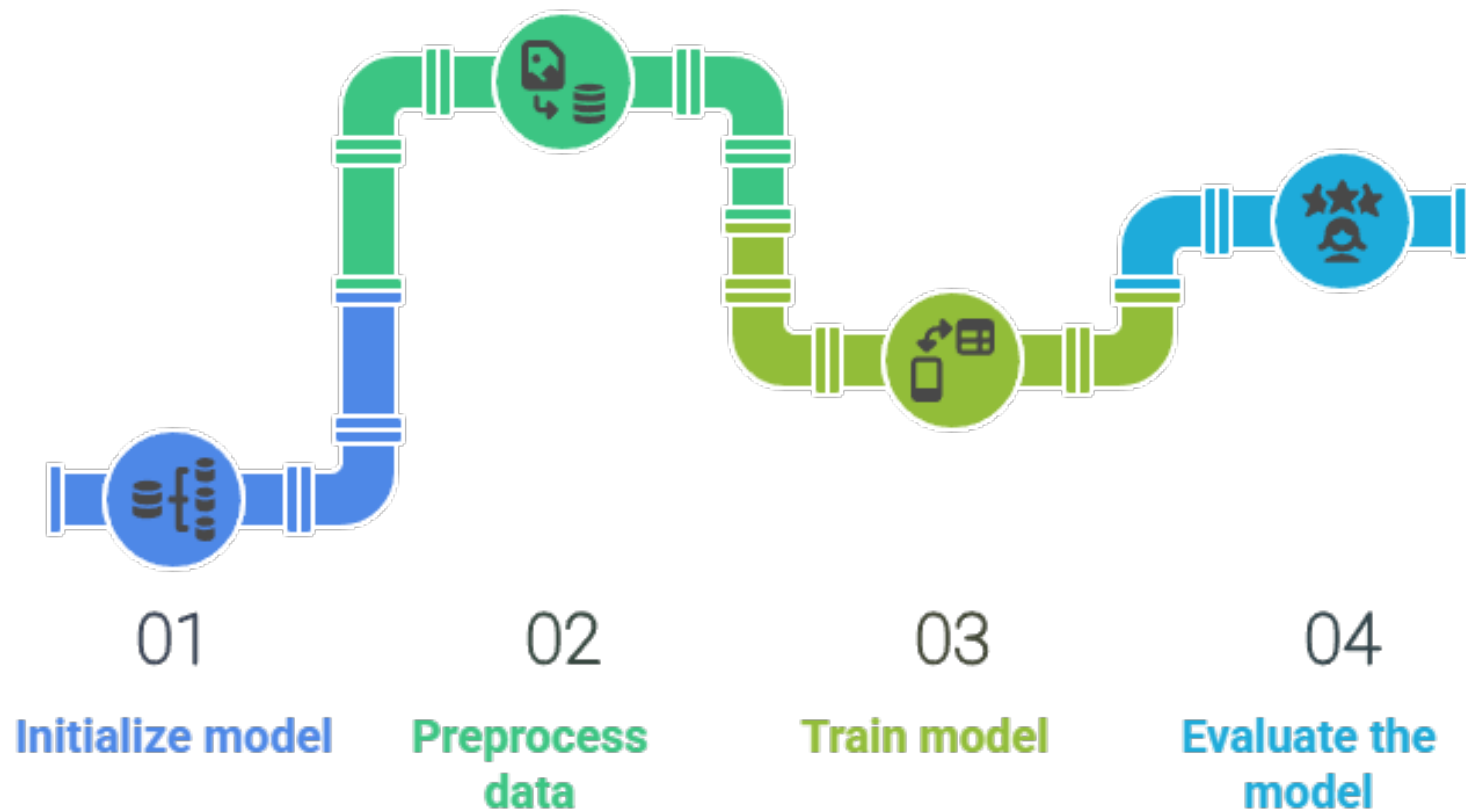


# Model Architecture and Base Model

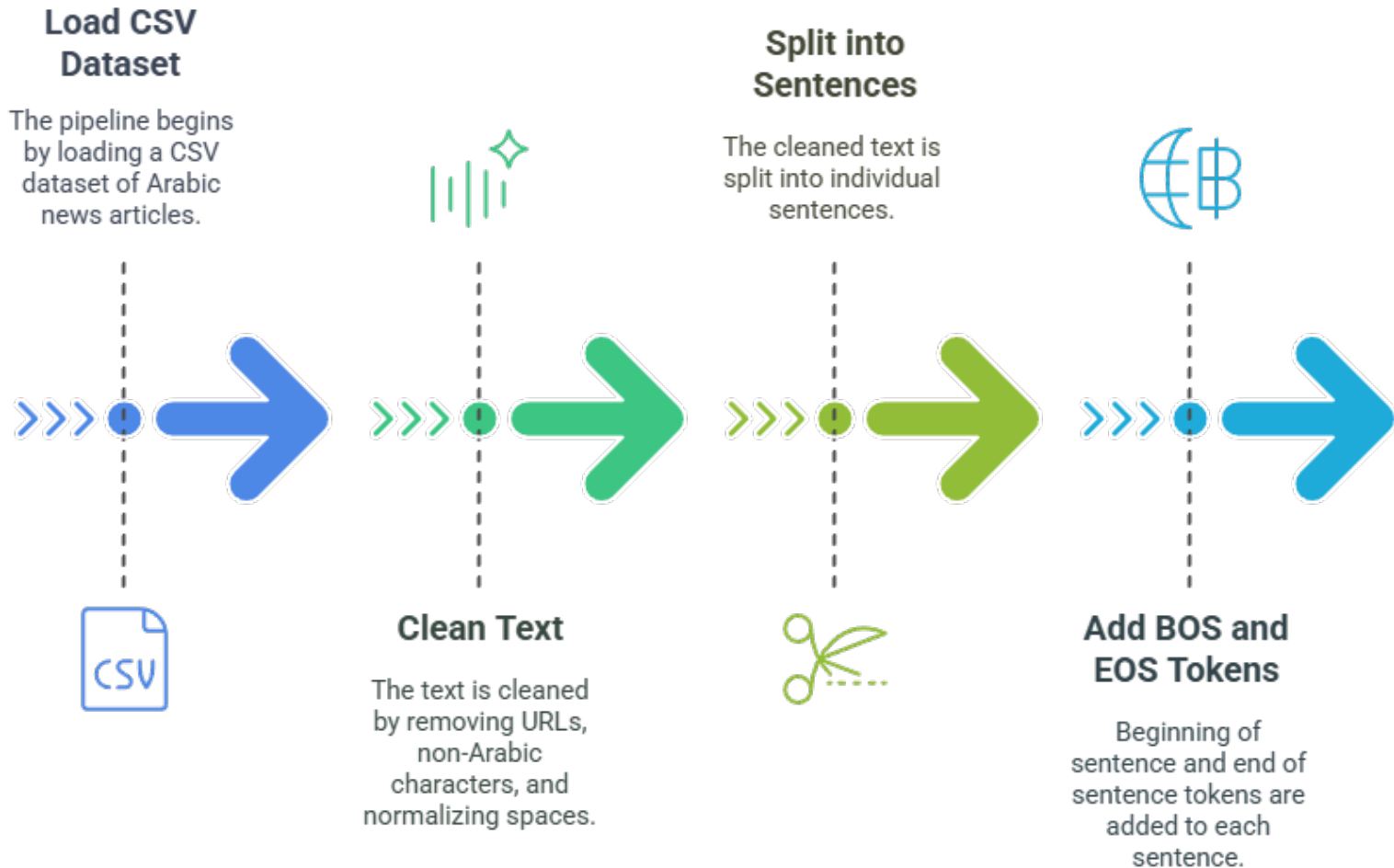
- Uses **aubmindlab/aragpt2-base** as foundation
- Pre-trained Arabic GPT-2 model
- Transformer-based architecture



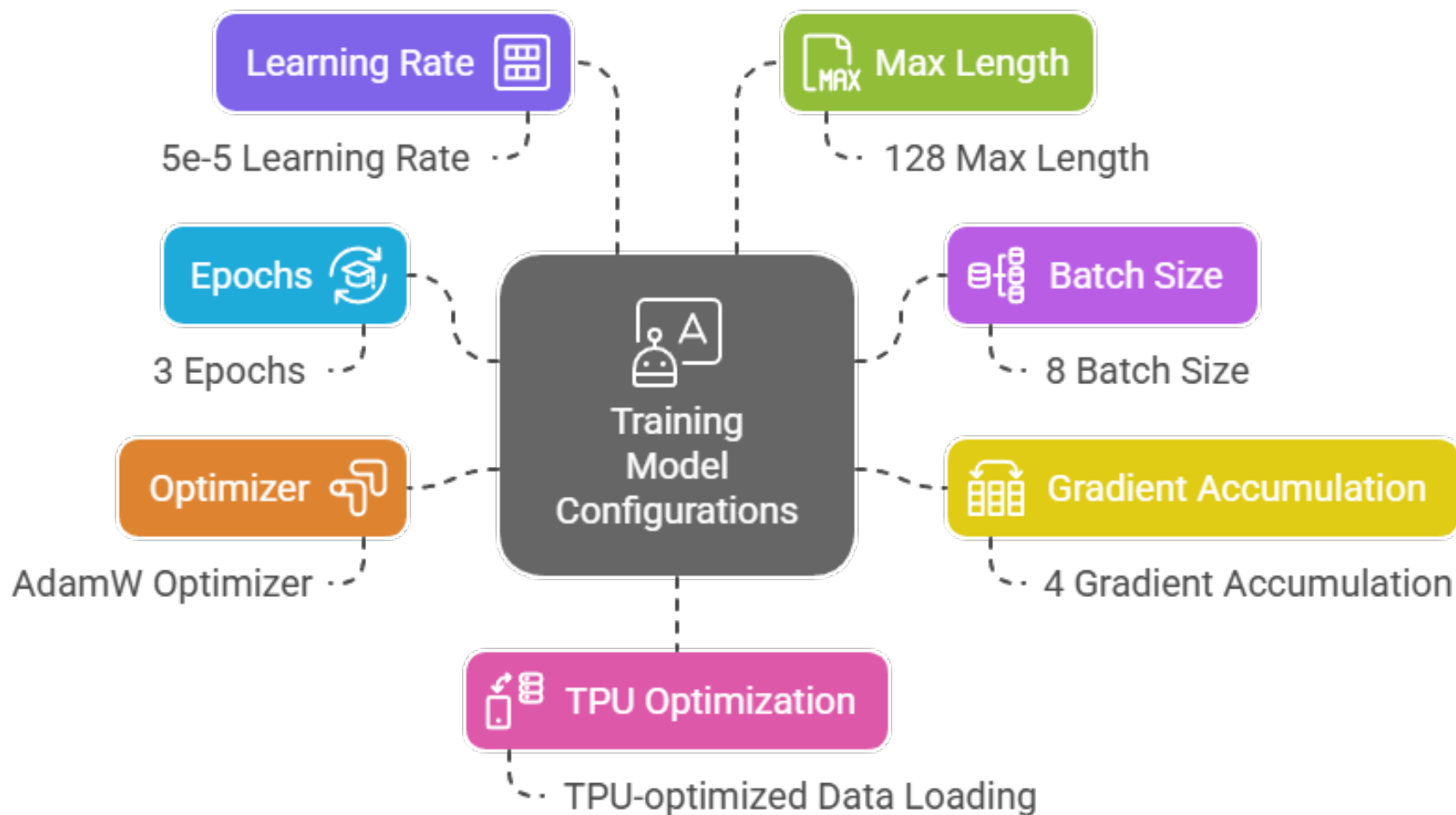
## Pipeline



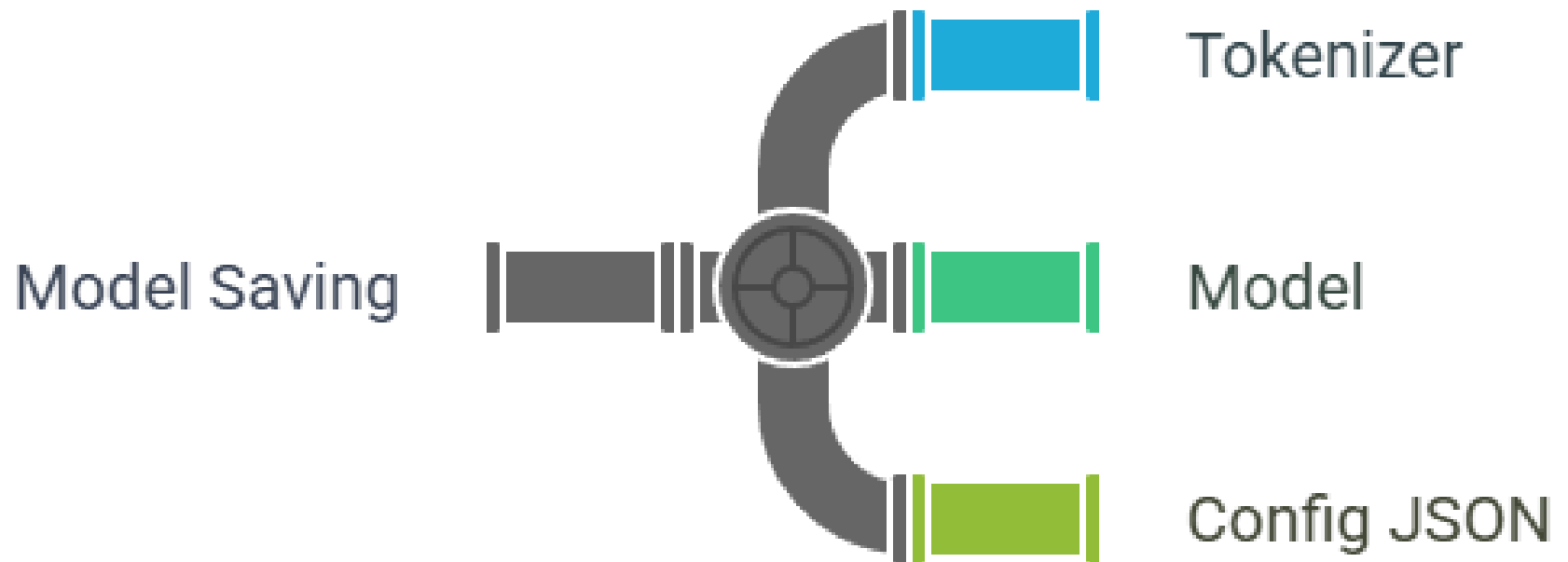
## Data Preprocessing Pipeline for Arabic News



## Training Model Configurations



## Model Saving



## Evaluation process

### Evaluation

Evaluating model performance using test sentences.

### Perplexity Score

Displays a perplexity score of 200.

# Arabic Autocomplete System (GUI)

