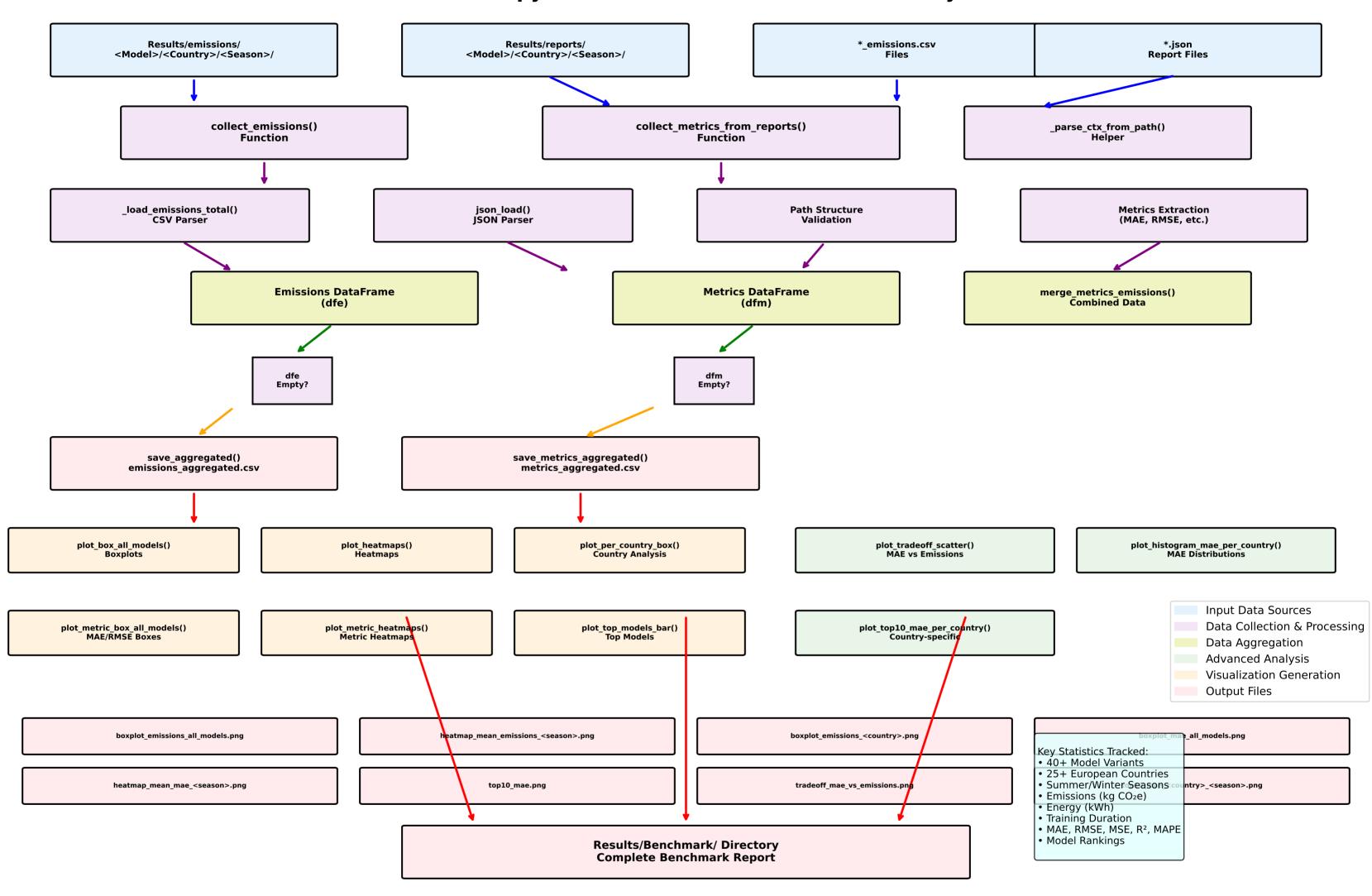
Benchmark.py Workflow: Model Performance Analysis



Benchmark.py Process Flow:

- 1. Data Collection:
- Scans Results/emissions/ for CSV filesScans Results/reports/ for JSON metrics
- Validates file paths and structure
- 2. Data Processing:
- Parses emissions data (CO₂, energy, duration)
 Extracts metrics (MAE, RMSE, MSE, R², MAPE)
- Aggregates by model/country/season
- 3. Analysis & Visualization:
- Box plots for distribution analysis
- Heatmaps for model × country comparison
- Trade-off analysis (accuracy vs emissions)
- Top performing models identification
- 4. Output Generation:
- Multiple PNG visualizationsAggregated CSV reports
- Country-specific analyses
- Season-based comparisons