

# Data Quality Report – DM4ML Assignment

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## 1. Interactions Dataset

**Source File:** data\_lake/raw/interactions/csv\2026\01\27\interactions\_20260127\_052410.csv

**Total Records:** 20010

**Null Values:**

user\_id: 0

item\_id: 0

event\_type: 0

rating: 15094

timestamp: 0

device: 0

session\_id: 0

**Validation Results:**

invalid\_ratings: 349

invalid\_events: 0

missing\_user\_or\_item: 0

duplicate\_rows: 10

## 2. Products Dataset

**Source File:** data\_lake/raw/products/ap\2026\01\27\products\_20260127\_055214.json

**Total Records:** 200

**Validation Results:**

missing\_item\_id: 0

missing\_name: 0

missing\_category: 0

invalid\_price: 0

invalid\_rating\_avg: 0

invalid\_popularity\_score: 0

## 3. Conclusion

The data quality checks were successfully executed on both the interaction and product datasets. Each PDF report is automatically versioned using a timestamp, ensuring full auditability and traceability of data quality across pipeline runs.