

# Member Churn Prediction Dataset

## MCPD v1.0 — Read Me First

### Welcome to MCPD v1.0

Thank you for acquiring the Member Churn Prediction Dataset from IntelligentPlatforms.net. This document provides essential guidance for working with this dataset.

### Key Field Groups

<b>Member_ID</b>	Unique member identifier (MCPD-XXXXXXXX format)
<b>Churn_Probability</b>	Predicted churn probability (0.00–1.00) — primary model output
<b>Predicted_Churn_30_Day</b>	30-day churn probability — use for immediate intervention targeting
<b>Churn_Risk_Score</b>	Churn risk score (0–100) — higher = greater churn risk
<b>Revenue_At_Risk</b>	Annual premium revenue at risk of loss (USD)
<b>LTV_Estimated</b>	Estimated member lifetime value (USD)
<b>Retention_Priority</b>	Critical / High / Medium / Low — use for intervention queue prioritization
<b>Intervention_Code</b>	Recommended retention intervention code
<b>CAHPS_Composite_Score</b>	CAHPS composite satisfaction score (0–100)
<b>Star_Rating</b>	CMS Star Rating (1.0–5.0)
<b>Source_System</b>	Primary source: CMS_MA_ENROLLMENT, CMS_MEDICAID, CMS_ACA, CMS_CAHPS, IP_MODEL

### Technical Requirements

- Python 3.8+ with pandas, pyarrow for Parquet files
- Minimum 16 GB RAM recommended for full 1M-record dataset
- UTF-8 encoding; dates in YYYY-MM-DD (ISO 8601) format
- Boolean fields: True/False string values; numeric decimals use period (.)
- Churn\_Probability and all probability fields range 0.0000–1.0000 (4 decimal places)