

# SHM Heavy Equipment Price Prediction - Executive Dashboard

Total Records: 412,698

Date Range: 1989 - 2012

Price Range: 4, 750 – 142,000

Average Price: \$31,215

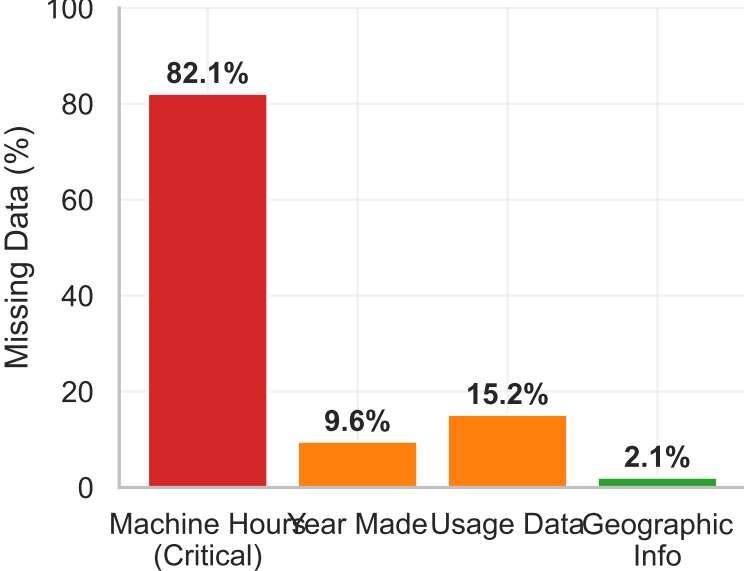
Best Model: RandomForest

Within 15% Accuracy: 42.7%

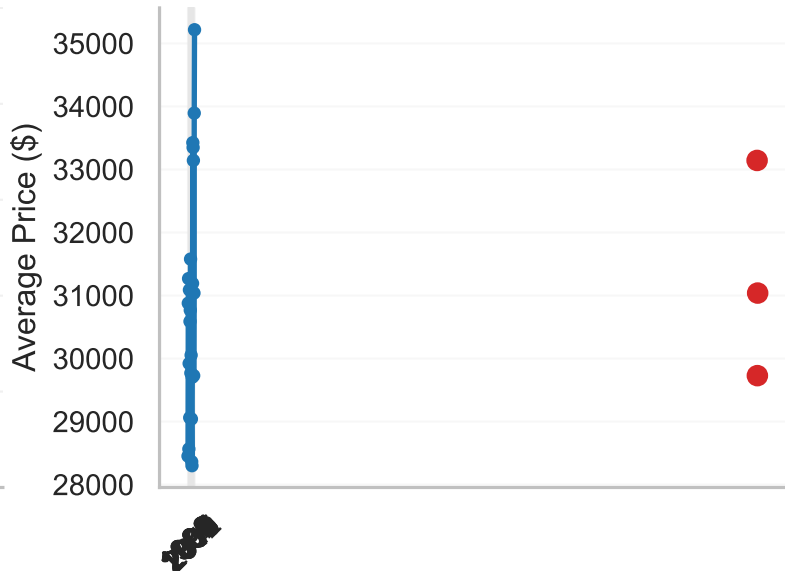
Business Ready: No

Risk Level: HIGH

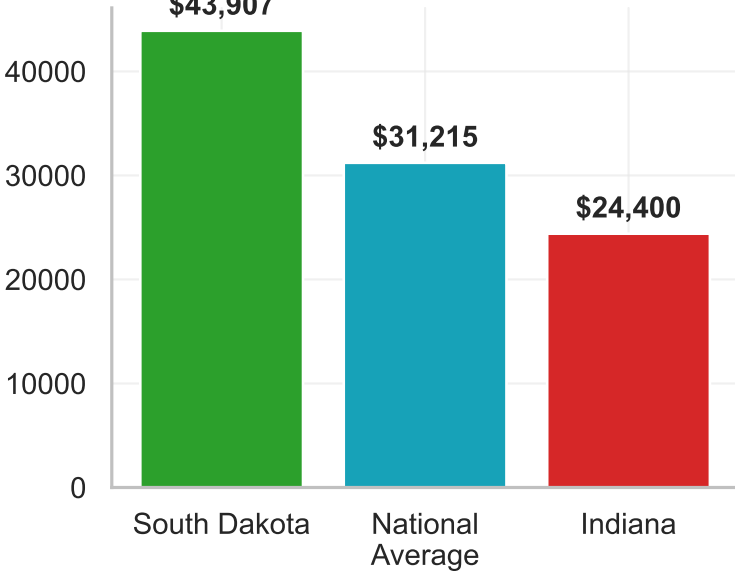
Finding 1: Critical Missing Data Issues



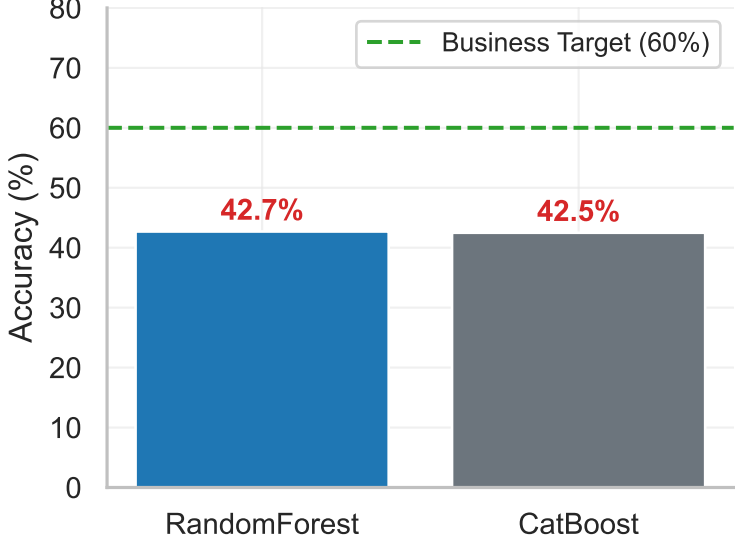
Finding 2: Financial Crisis Impact (2008-2010)



Finding 3: Geographic Price Variations



Finding 4: Model Performance (Within 15% Accuracy)



## Implementation Roadmap

1. Phase 1: Address data quality issues (82% missing usage data)
2. Phase 2: Implement specialized high-cardinality feature handling
3. Phase 3: Develop time-aware validation for market volatility
4. Phase 4: Deploy production pipeline with monitoring

## Risk Assessment Matrix

