Model Performance Assessment

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MODEL PERFORMANCE SUMMARY

Best Model: RandomForest
Overall Score: 42.7% (Within 15% tolerance)

DETAILED METRICS:

RandomForest:
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- Test Accuracy (±15%): 42.7%
- Test Accuracy (±25%): 65.9%
- RMSE: $11,670
- R² Score: 0.802
- Training Time: 3.6s

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CatBoost:
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- Test Accuracy (±15%): 42.5%
- Test Accuracy (±25%): 66.6%
- RMSE: $11,999
- R² Score: 0.790
- Training Time: 101.6s

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BUSINESS READINESS ASSESSMENT:
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- Target: 60% within 15% tolerance
- Current: 42.7% within 15% tolerance
- Status: NEEDS IMPROVEMENT
- Risk Level: HIGH

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RECOMMENDATIONS:
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- Enhance feature engineering for usage patterns
- Implement ensemble methods
- Add domain-specific features
- Consider external data sources