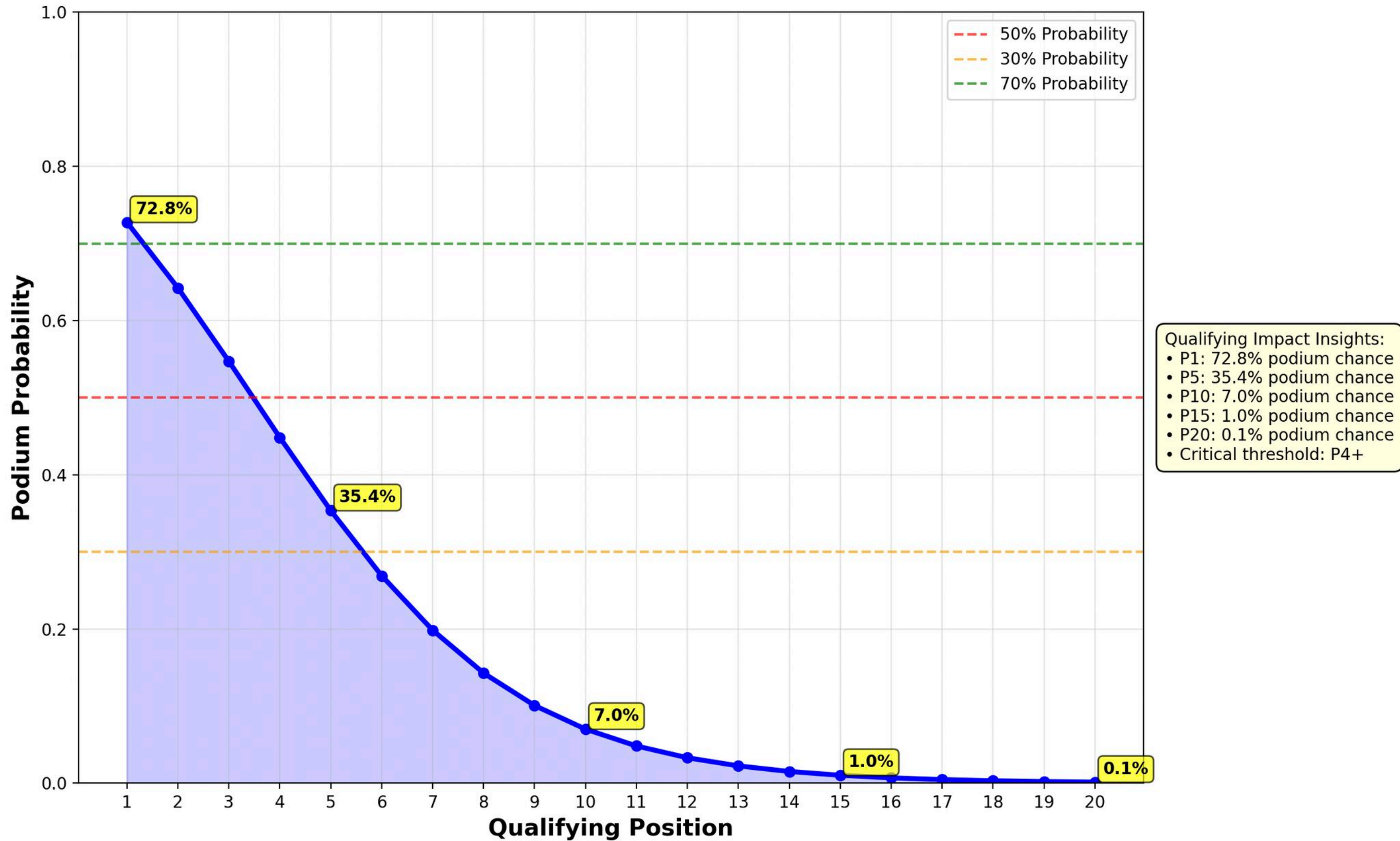


Figure 1

Lewis Hamilton Podium Probability vs Qualifying Position

Azerbaijan Grand Prix



== MODEL TRAINING RESULTS ==

Logistic Regression:

Accuracy: 84.21%, Precision: 75.00%, Recall: 85.71%, ROC AUC: 0.869

Random Forest:

Accuracy: 68.42%, Precision: 57.14%, Recall: 57.14%, ROC AUC: 0.810

XGBoost:

Accuracy: 68.42%, Precision: 57.14%, Recall: 57.14%, ROC AUC: 0.798

🎯 Best model: Logistic Regression (ROC AUC: 0.869)

== MAKING PREDICTION FOR AZERBAIJAN ==

🏁 Features for next race:

grid_position: 12

circuit_avg_finish: 4.6947368421052635

recent_form: 5.666666666666667

previous_finish: 6.0

🎯 LEWIS HAMILTON PODIUM PROBABILITY: 3.30%

📉 LOW CHANCE OF PODIUM

Based on:

- Qualifying: P12
- Recent form: 5.7 avg finish
- Previous race: P6.0
- Circuit history: 4.7 avg at Azerbaijan