

DATA-DRIVEN INSIGHTS FROM THE NBA DRAFT COMBINE

Predicting NBA Draft Success

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INTRODUCTION

- NBA Draft Combine evaluates key physical and athletic metrics.
- Purpose: Analyze data to predict draft success based on player measurements.

RESEARCH OBJECTIVES

- Analyze trends in physical attributes (height, wingspan, etc.).
- Assess athletic performance metrics (vertical jump, sprint).
- Build predictive models to estimate draft success.
- Provide insights for scouts and teams.

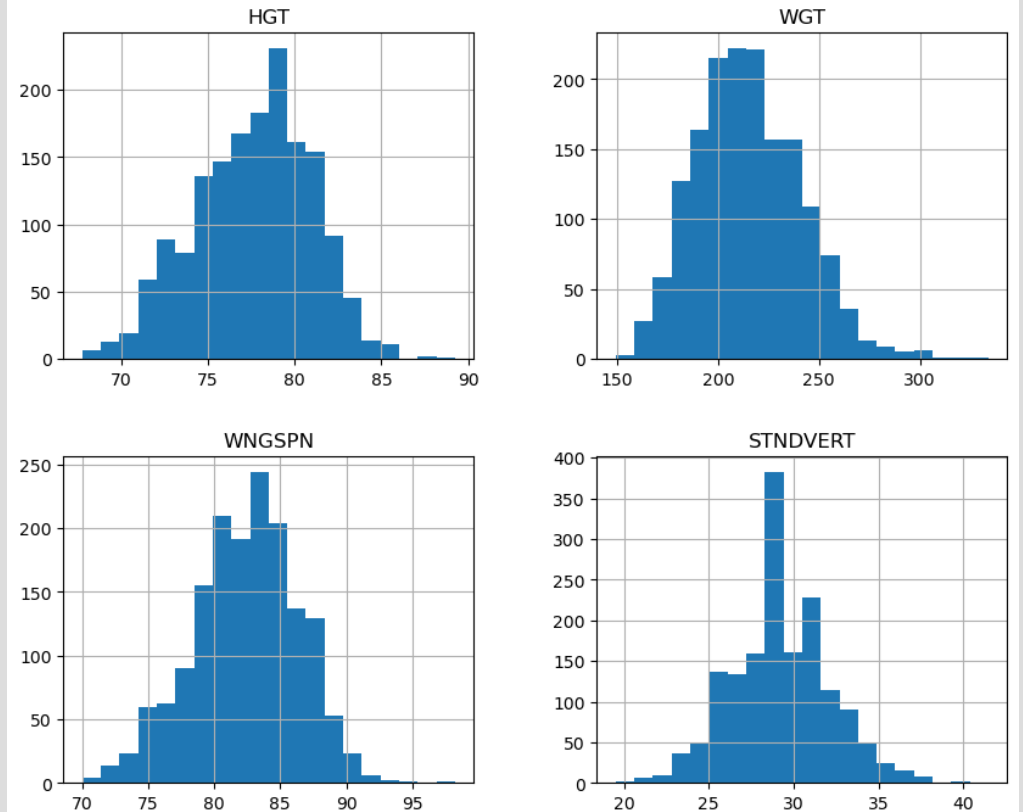
DATA OVERVIEW

Dataset: 1,610 players, 21 attributes.

Metrics include height, wingspan, vertical jump, sprint, and bench press.

Distribution of Players by Position

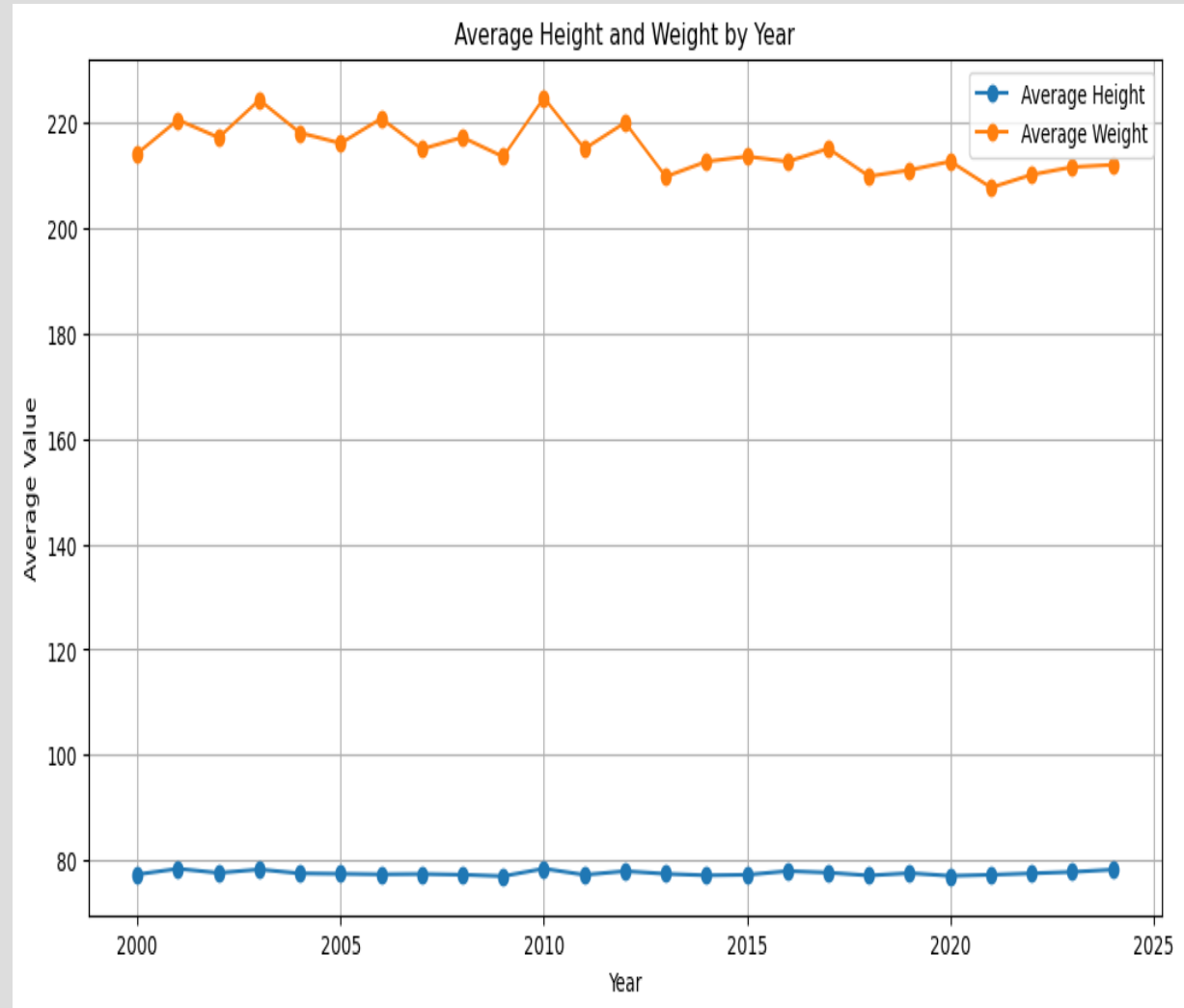
Distribution of Key Measurements



PHYSICAL ATTRIBUTE TRENDS

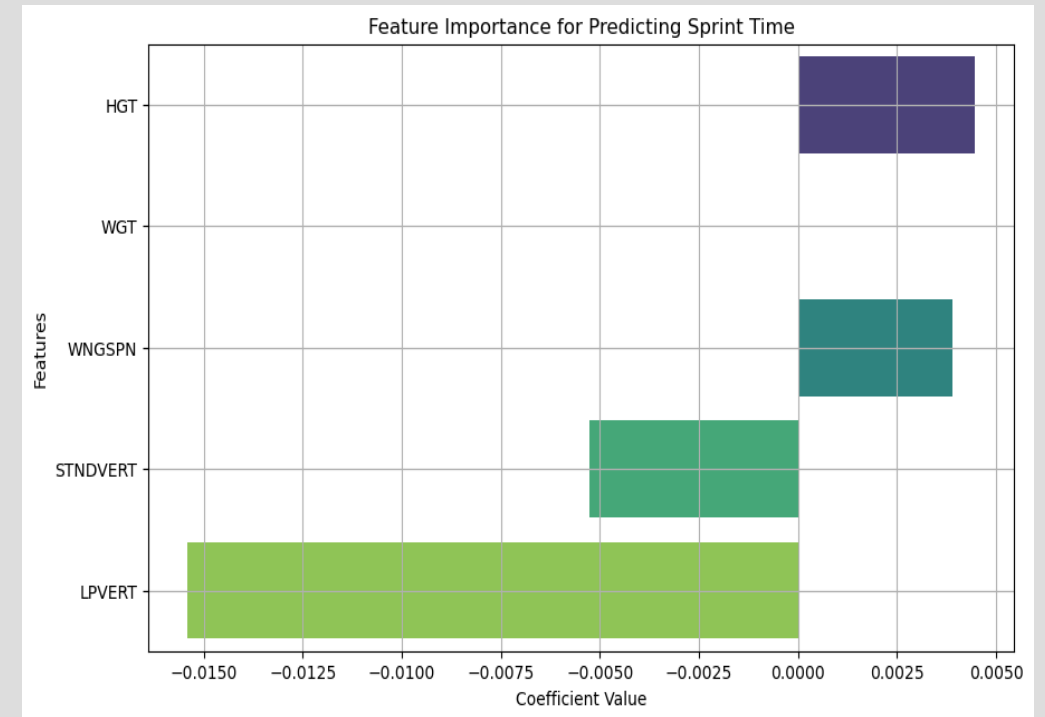
- Players have grown taller and heavier over time.
- Centers show the biggest increase in size and wingspan.

Average Height and Weight Over Time



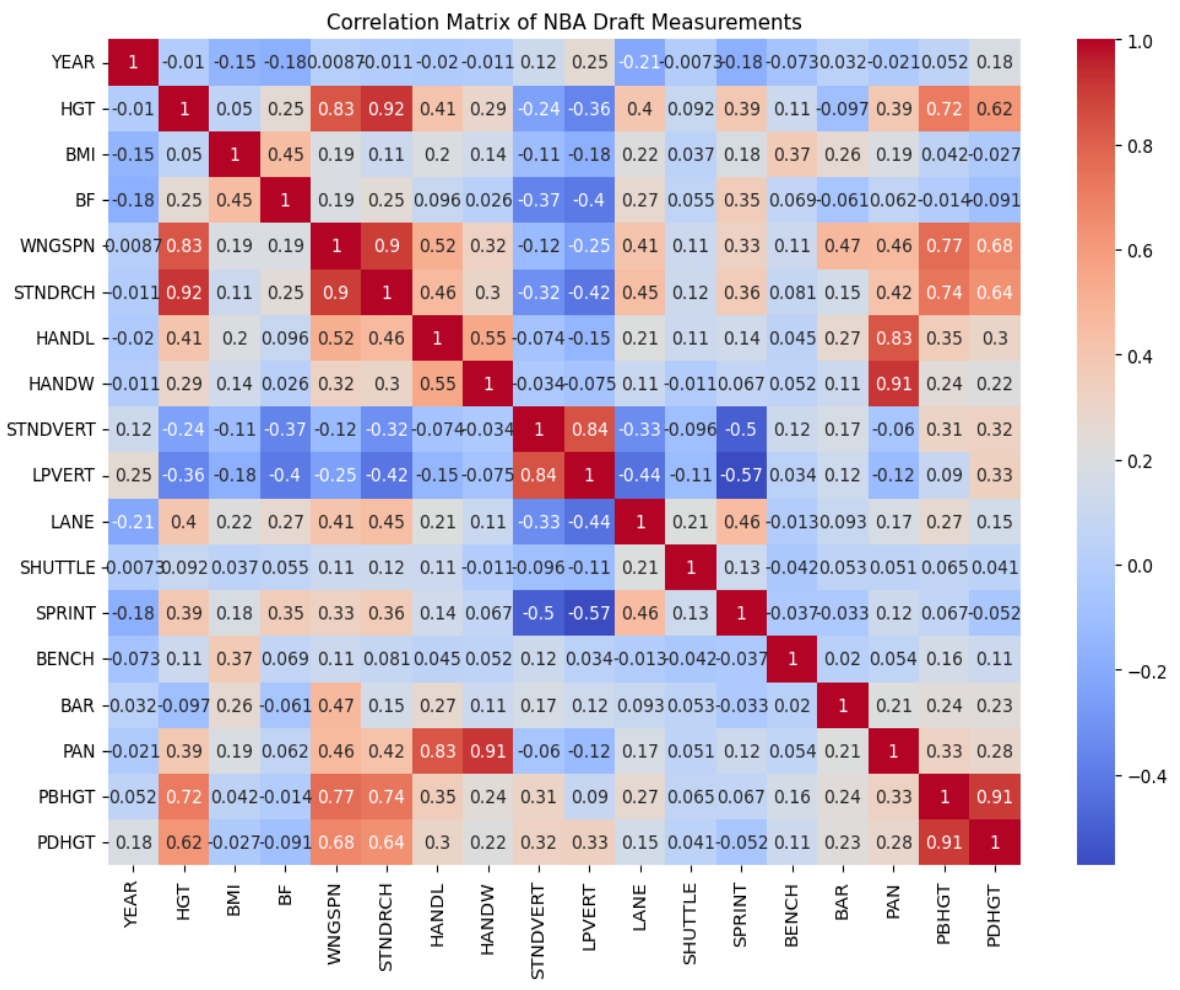
ATHLETIC PERFORMANCE BY POSITION

Guards excel in
speed/agility, forwards
and centers dominate in
vertical jump.



KEY METRICS AND DRAFT SUCCESS

Wingspan and vertical jump are strongly correlated with draft position.



PREDICTIVE MODEL RESULTS

- Linear Regression: $R^2 = 0.72$, wingspan and vertical leap most predictive.
- Logistic Regression: 78% accuracy in predicting draft tier.

RECOMMENDATIONS

- Focus on wingspan and vertical jump for forwards/centers.
- Evaluate guards on agility and speed.
- Use predictive models to find undervalued players.

CONCLUSION

- Data-driven insights can improve draft outcomes.
- Models offer new perspectives on player evaluation.