

SOCCKER CHEMISTRY

SIMON LEAHY



EQUATION

INPUTS

- Capital
- Competitive Persuasion
- Limited Skill Pool
- Salary Cap

GOALS

- Build or amend current team
- Minimize negative impact of limiting inputs
- Yield higher offensive success (league adjusted)

CHEMISTRY

PURPOSE

- Optimal combination of player skillsets
- Identify key skillsets, combinations of skillsets, and variance of skillsets that contribute most to offensive success

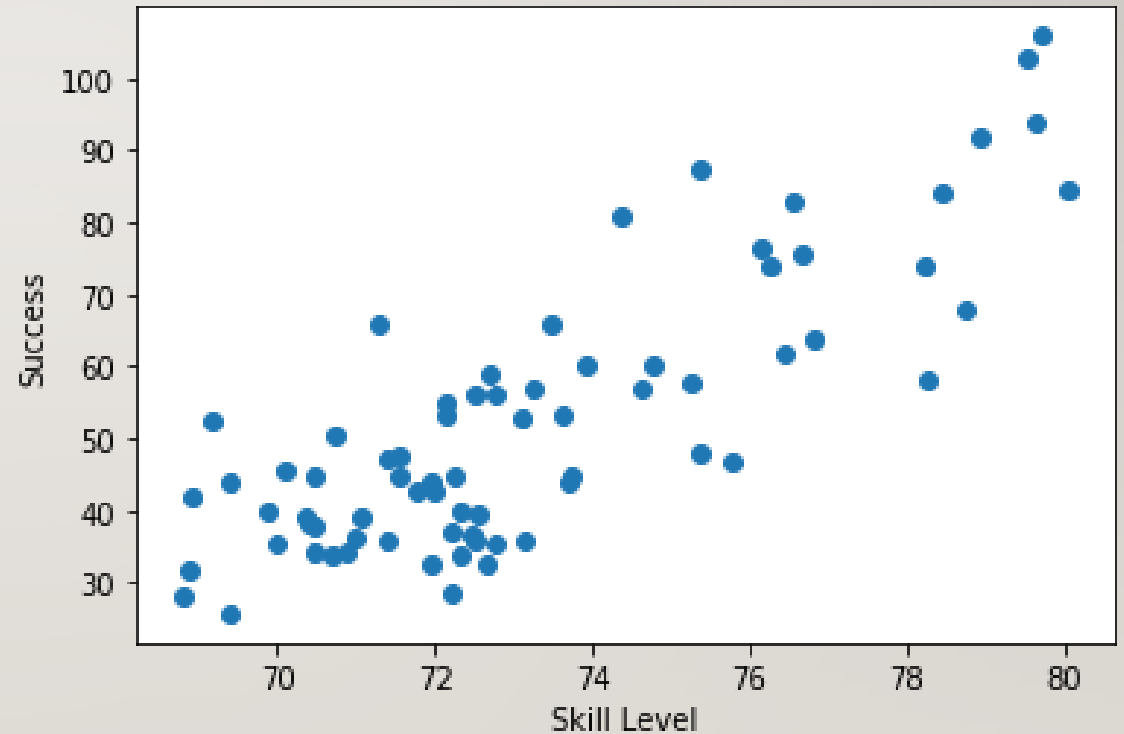
INTENDED KPIS

- Top 5 offensively inclined players from each team across 5 different leagues
- Subset's Avg and St. dev. of each available offensive skill
- Delta between overall skill and individual attributes

INITIAL HYPOTHESIS CONFIRMATION

LINEAR REGRESSION

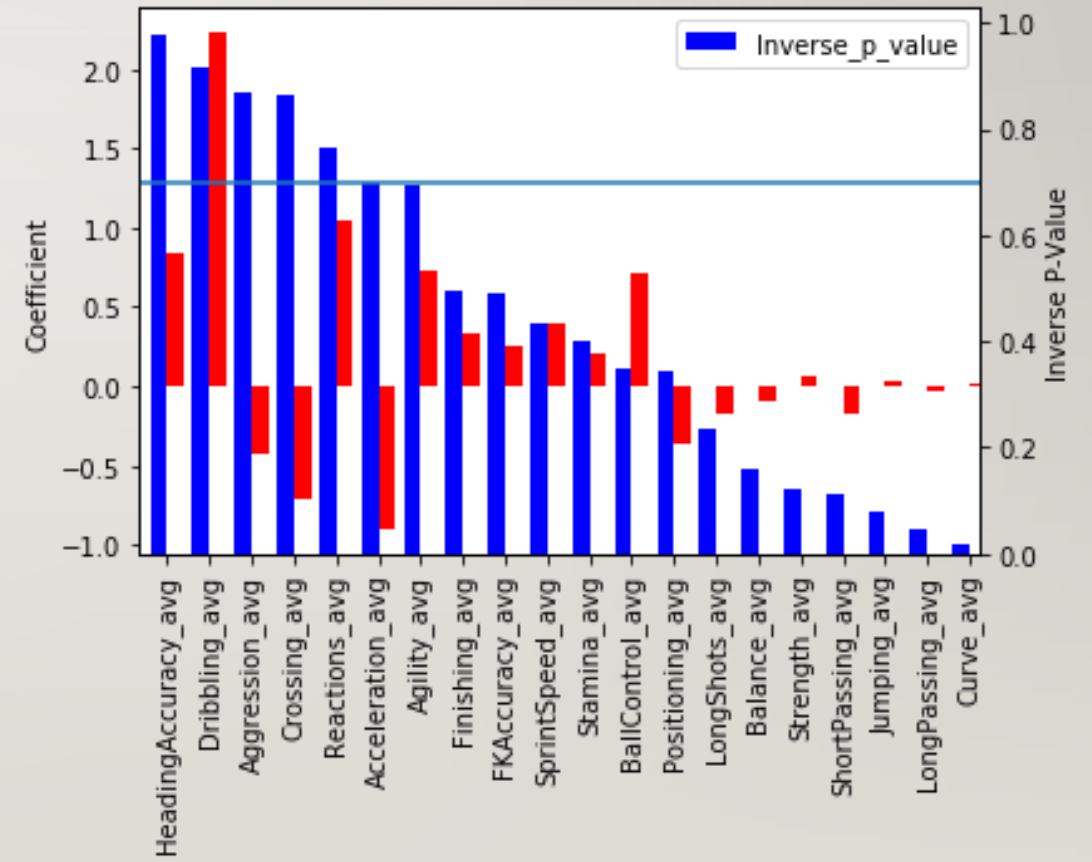
- Confirm relationship between offensive skill and success
- Multivariate (.81) and univariate regression (.82)



REGRESSION RESULTS

METRICS

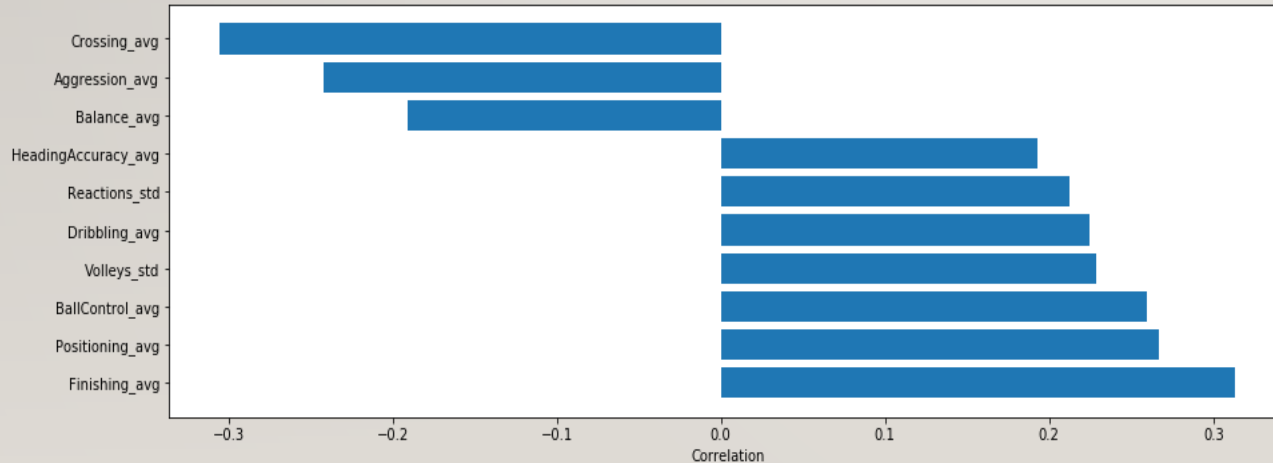
- Accuracy, dribbling, and reactions have strong positive impact on offensive success (basic multivariate linear regression)



ATTRIBUTE DELTA VS RESIDUAL ASSESSMENT

CONCEPT

- Impact of delta between attribute and all attribute average on residual of expected vs. actual success
- Uncovers attributes that contribute to over or underperformance based on overall skills



Key Attributes- Finishing, Positioning, Ball Control, Volleys std., Reactions std., Dribbling, Heading Accuracy

Overrated attributes- Crossing, Aggression, Balance