Player Scouting Analysis for HSV Hamburg

DA_Talent presents a comprehensive data-driven approach to identify top talent for HSV Hamburg's summer transfer window. Our analysis focuses on four key positions: goalkeeper, striker, midfielder, and defender.

By Gerardo Jiménez

Agenda and Objectives

1. Data Collection and Analysis

   UEFA CL 21/22 player statistics.

2. Database Creation

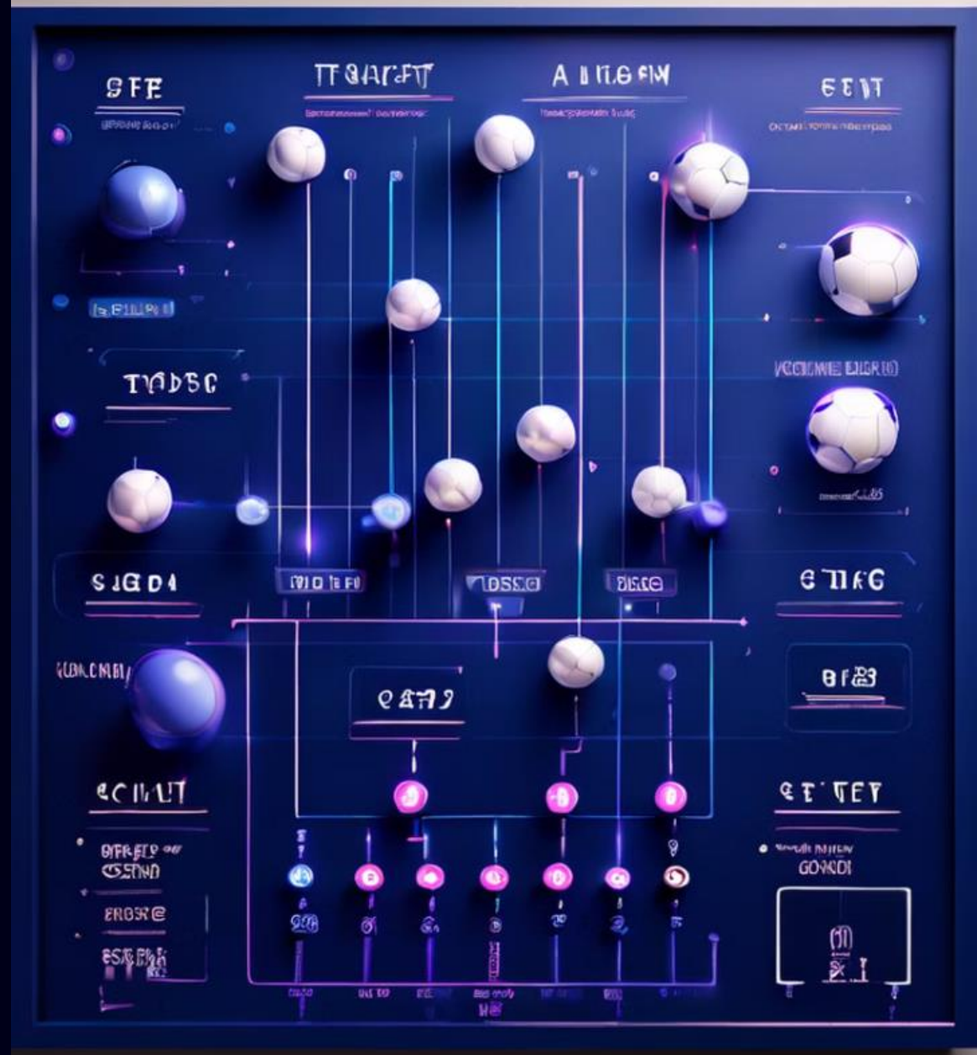
   MySQL database with processed CSV files.

3. Query Development

   Queries and subqueries, joins, and CTEs used for data extraction.

4. Visual Analysis

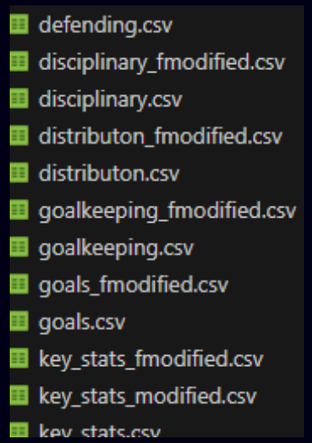
   Generate insightful graphs to visualize player performance metrics.



Data Recovery and Analysis

Multiple Data Files

Processed and cleaned 8 CSV files containing various player metrics.



Comprehensive Dataset

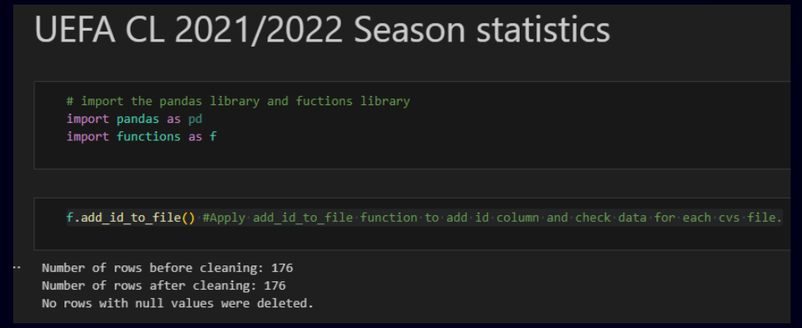
Utilised UEFA Champions League 21/22 player statistics from Kaggle.

Author: Ali Sultanov kaggle

https://www.kaggle.com/code/alisultanov/eda-champions-league-21-22/input

Python-Powered Cleaning

Employed Python scripts to ensure data accuracy and consistency.



Database Creation

Star Topology Design

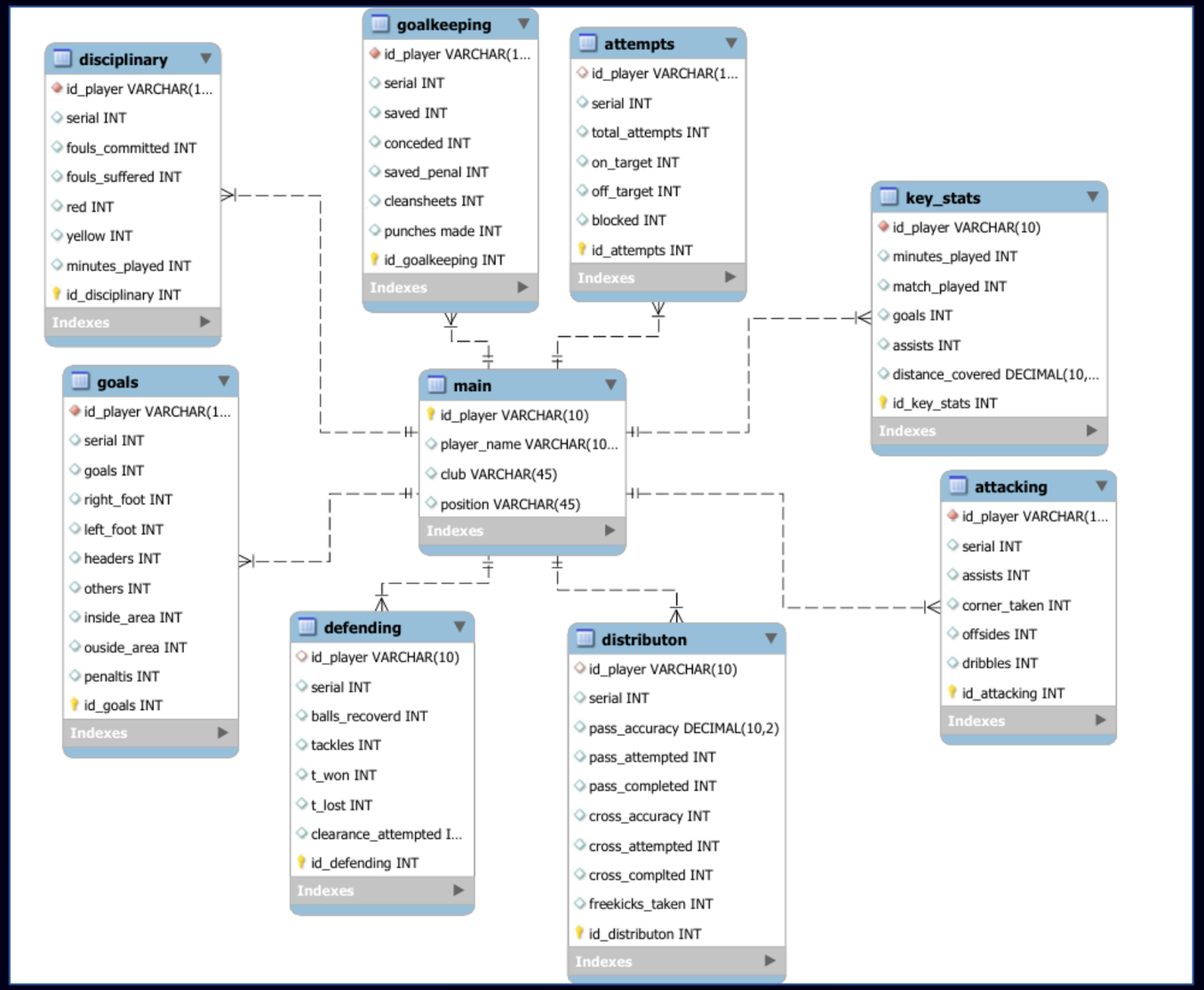
Optimised for efficient querying and analysis.

CSV Data Integration

Seamless import of cleaned datasets.

Scalable Architecture

Prepared for future data additions and modifications.




```
-- Schema ucl21_22
-- -----------------------------------------------------
CREATE SCHEMA IF NOT EXISTS `ucl21_22` DEFAULT CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci ;
USE `ucl21_22` ;

-- -----------------------------------------------------
-- Table `ucl21_22`.`main`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `ucl21_22`.`main` (
  `id_player` VARCHAR(10) NOT NULL,
  `player_name` VARCHAR(100) NULL DEFAULT NULL,
  `club` VARCHAR(45) NULL DEFAULT NULL,
  `position` VARCHAR(45) NULL DEFAULT NULL,
  PRIMARY KEY (`id_player`),
  UNIQUE INDEX `id_player_UNIQUE` (`id_player` ASC) VISIBLE)
```

Query Development and Data Export

1

Query Creation

Utilised subqueries, joins, and CTEs for comprehensive data extraction.

2

MySQL to Python Export

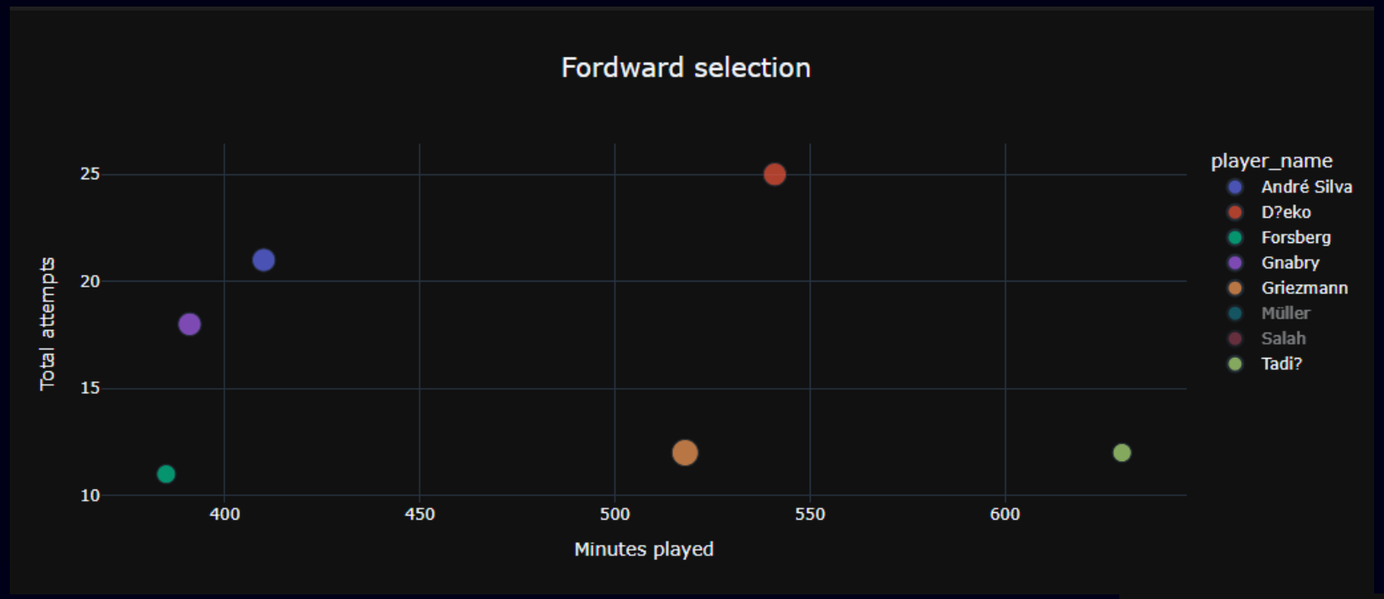
Seamless data transfer for advanced analysis and visualization.

3

Data Transformation

Prepared datasets for position-specific player evaluations.

Graphical Analysis of Results

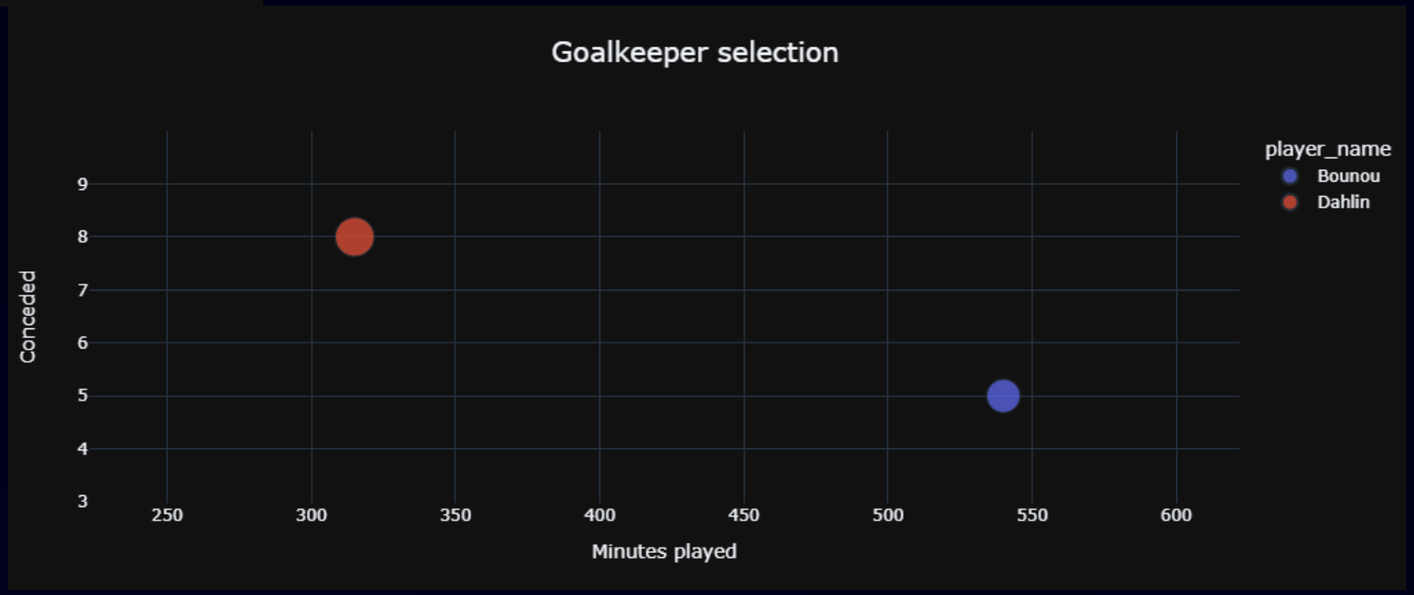


Performance Metrics Visualization

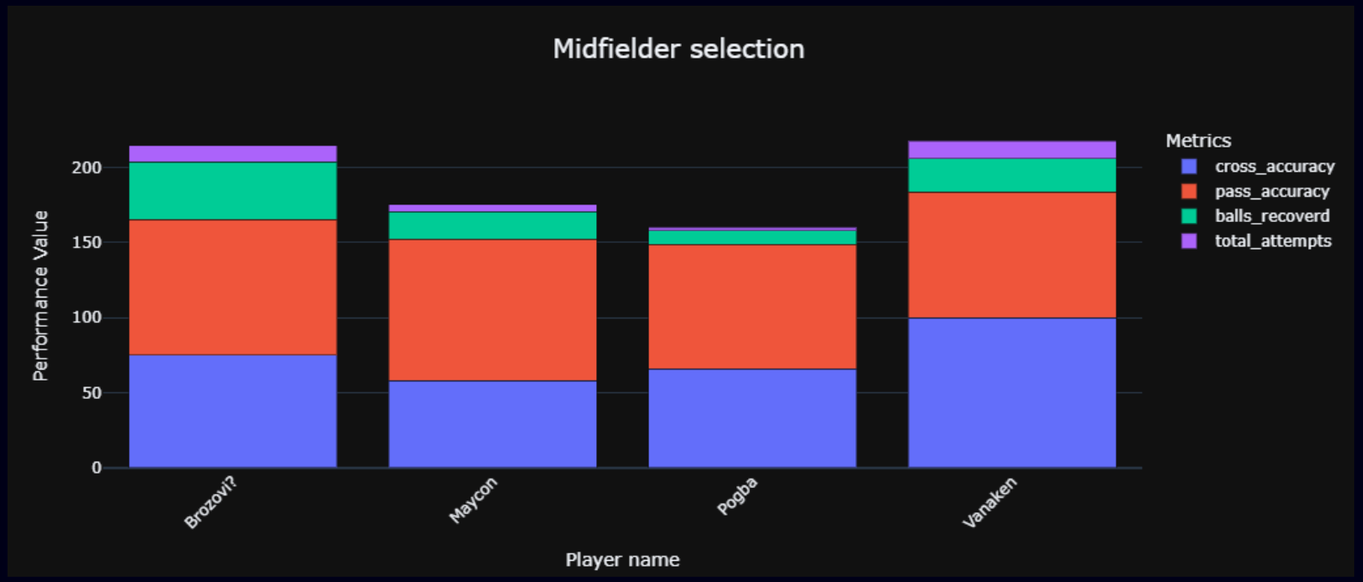
- Cumulative playing minutes greater than the average.
- Disciplined players with a maximum of 4 yellow cards and 0 red cards.

Performance Metrics Visualization

Created insightful graphs showcasing key player statistics for each position.

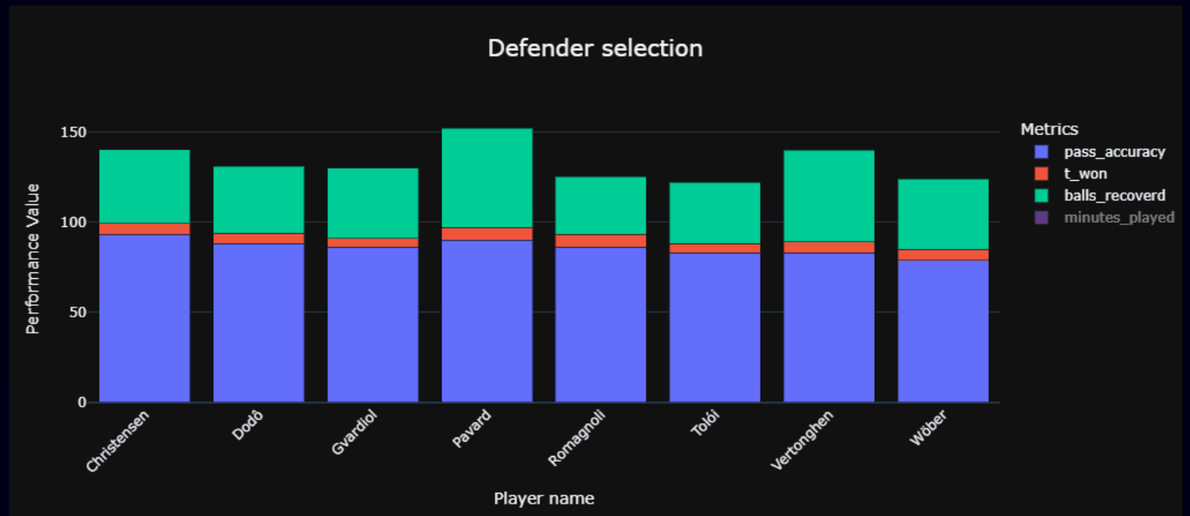


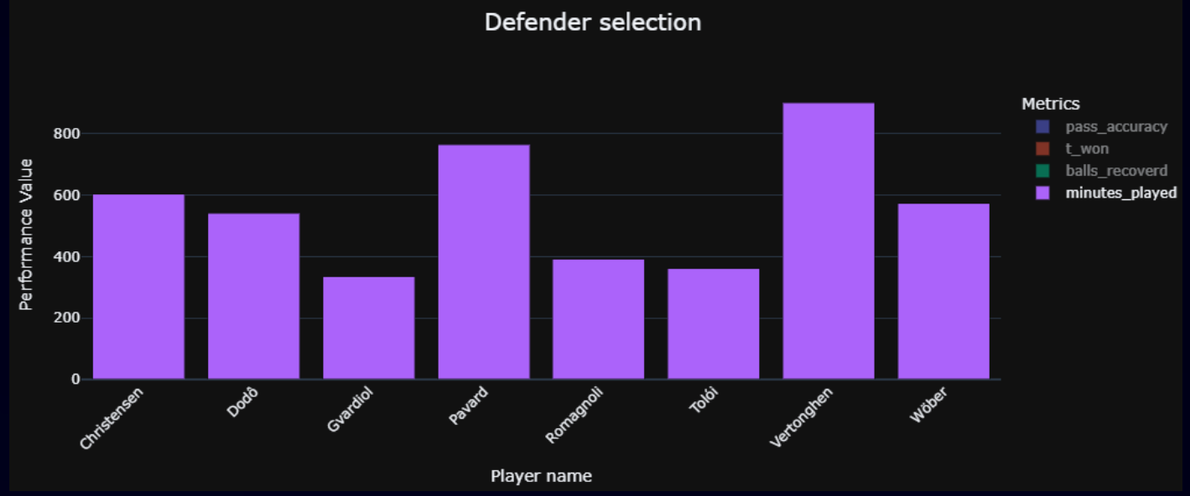
Graphical Analysis of Results



Performance Metrics Visualization

Performance Metrics Visualization





Key Findings and Recommendations

Goalkeeper Target

BOUNOU

Striker Prospect

DZEKO – ANDRE SILVA

Midfield Maestro

VANAKEN - BROZOVIK

Defensive Rock

DODô - WÖBER

Conclusion and Next Steps

Data-Driven Decisions

Our analysis provides a solid foundation for informed transfer decisions.

Scouting Focus

Recommend in-person scouting of the identified top prospects.

Continuous Monitoring

Suggest ongoing performance tracking of potential targets.

Strategy Refinement

Propose regular meetings to adjust scouting criteria based on team needs.