MOSTAFA SAAD

Football Data & Performance Analyst | Python, Opta Event Data, xG/xT Models & Tactical Scouting

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Portfolio: https://mostafasaad91.github.io/?track=football

PROFESSIONAL SUMMARY

Football Data & Performance Analyst backed by 6+ years of professional data analytics, SQL, Python, and Power BI experience. Creator of an open-source automated match analysis engine (GitHub ★ 7) turning WhoScored/Opta event data into xG/xT models, tactical visualizations, player role profiles, and executive match reports. Formally trained in football analysis, scouting, and coaching (FP Academy, PFSA, The FA, England Football). Fluent analytical reporting in English and Arabic — open to remote or on-site club/agency roles.

FLAGSHIP PORTFOLIO PROJECTS (GITHUB)

Football-Match-Analysis — Automated Opta/WhoScored Tactical Engine (GitHub ★ 7)
github.com/mostafasaad91/Football-Match-Analysis | Python · Opta Event Data · SQLite · PDF & 8 Posters

- End-to-end Python toolkit converting a single WhoScored/Opta URL into custom xG/xT/xGChain/PPDA/Field Tilt models, 8 dual AMOLED (#000000) & Print Light (#F5F5F5) 4:5 posters, a PDF report, .docx article, and SQLite replay archive across EPL, La Liga & Serie A.

Football Action Valuation — Markov xT, VAEP & Pass Risk-Reward Engine (543,651 Events · 10 Visuals)
Live App: mostafasaad91.github.io/football-vaep-xt-action-valuation | Markov xT · LightGBM VAEP · xPass · TreeSHAP

- Solved exact 12×8 Bellman Markov xT (30 iters, 0.0034→0.1840), match-grouped zero-leakage VAEP (0.7839 Test AUC, #1 Lionel Messi 1.054 VAEP/90, #1 Bayer Leverkusen 3.025/M) & xPass (0.9308 Test AUC over 161,617 passes) across 149 StatsBomb matches — deployed as a Live Interactive xT Pitch Simulator.

Football Tactical Intelligence — Pressing, Counter-Press Survival & Build-Up Lab (149 Matches · 10 Visuals)
Live App: mostafasaad91.github.io/football-pressing-tactical-intelligence | Kaplan-Meier 5s · PPDA · K-Means PCA

- Proved Field Tilt→xG (Spearman ρ=0.618, p=7.8e-33) & +1.14 High-Press xG swing, tested the 5-Second Counter-Pressing Rule via Kaplan-Meier survival across 19,445 losses (34.6% vs 30.4%), quantified Zone 14 traps (49.7% shot), and clustered champions (Leverkusen, Spain, Argentina) in 81.5%-variance 2D PCA.

StatsBomb 360 xG Calibration Lab & Live 3,642-Shot Pitch Explorer (149 Matches)
Live App: mostafasaad91.github.io/statsbomb-360-xg-calibration | StatsBomb 360 · Match-Grouped CV · SHAP · CI

- Built a match-grouped zero-leakage xG benchmark across WC 2022, Euro 2024 & Invincible Bayer Leverkusen; proved Freeze-Frame coordinates cut Test Log-Loss by -0.0236 (0.2531 LL, 0.816 AUC vs official StatsBomb 0.2422 / 0.827) and deployed a Live 3,642-Shot Interactive Pitch Explorer & 73-Player Finishing Leaderboard.

Football Scouting — Role & Similarity Engine & Live 361-Player Twin Finder (StatsBomb Open Data)
Live Widget: mostafasaad91.github.io/?track=football#scouting-widget | SQLite · K-Means · PCA · Cosine Similarity · CI

- Engineered a club recruitment "Find a Replacement" engine (1,305 → 361 eligible outfielders, optimal k=4 archetypes, 56.3% 2D PCA variance) surfacing same-role twins including Lamine Yamal (96.0% Wirtz) & Vitinha (92.2% Xhaka) — playable live in browser with Head-to-Head percentiles.

CORE TECHNICAL SKILLS

Football Metrics	Custom xG & Freeze-Frame Models, xT, xGChain, xGBuildup, PPDA, Pressing Traps, Field Tilt, Zone 14
Tactical & Scouting	Match & Opposition Analysis, Cosine Similarity Recruitment, K-Means Role Archetypes, Same-Role Percentiles
Data & Automation	Python (Pandas, Scikit-Learn, XGBoost, LightGBM, SHAP, Matplotlib), SQL / SQLite, Power BI, Excel, Tableau
Communication	Clear bilingual tactical briefs, coach-ready AMOLED visual boards, and written match articles (EN & AR)

PROFESSIONAL EXPERIENCE

Independent Football Data & Performance Analyst — Tactical Analytics

October 2022 – Present | Remote / Independent

- Build custom xG/xT models from event data and produce automated team, match, and opposition reports translating possession, field tilt, PPDA, and chance quality into actionable coaching insights.
- Design interactive Power BI & Python scouting dashboards and deliver freelance business data consulting.

Digital Archivist & Cultural Data Analyst — NADIM Foundation

June 2024 – Present | Cairo, Egypt

- Lead database structuring, metadata validation, and cross-table ID QA workflows across large multi-source datasets.

Senior Data Analyst & Archive Officer — Daftar Ahwal Data Research Institute

September 2017 – September 2022 (5 yrs 1 mo) | Cairo, Egypt

- Managed 7+ structured dataset projects, designed coding taxonomies and forecasting indicators in Excel & Power BI, supervised analysts, and taught advanced Excel workshops.

CERTIFICATIONS & EDUCATION

- **Football Analysis Course** — FP Academy
- **Introduction to Football Scouting** — PFSA (Professional Football Scouts Association)
- **Introduction to Coaching Football** — The FA
- **EE Playmaker** — England Football
- **Bachelor's Degree, Business Administration & Management** — Sadat University (2010 – 2014)
- **Languages:** Arabic (Native), English (Professional Analytical & Technical Writing)