Maximus Alvir

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Summary

Results-driven professional with expertise in data analysis and visualization, complemented by a strong background in Division I Athletics. Proven ability to perform under pressure and deliver actionable insights that drive organizational success. Committed to ongoing skill enhancement and professional development.

Education

Syracuse University, New York — May 2025
Bachelor of Science – BS, Sports Analytics Major, Sports Event Management Minor
Football Analytics Club

Clarkstown Senior High School, New York — June 2021
High School Regents Diploma, 98% Attendance

Professional Experience

Tactix Ai • 7/2025 – Present
Football Data Analyst & Machine Learning Intern

- Maintained machine learning pipelines for film ingestion, labeling, and structured play-event data
- Leveraged sports tracking data and play-by-play information to engineer features for models, supporting projects in player movement analysis, and formation efficiency
- Conducted exploratory data analysis and quality control on large-scale football datasets, delivering insights that streamlined workflows for recruiters, coaches, and analysts across collegiate and professional levels

ABIE Agency • 11/2025 – Present
Lead Data Analyst Intern

- Designed and built conference and position specific player evaluation models to assess transfer fit and NFL pipeline likelihood using athletic measurables, production metrics, and historical outcomes.
- Developed scalable Google Sheets and R-based analytics tools to support scouting decisions, enabling conference comparisons, archetype matching, and draft pathway analysis for collegiate prospects.
- Partnered with regional scouts and agency leadership to translate scouting criteria into data-driven models, supporting player advising, transfer strategy, and long-term projection

Syracuse Football Team • SYRACUSE, NY 7/2023 – 5/2025
Recruiting and Player Personnel Intern

- Assesses high school football players through hudl using Catapult Thunder to cut up film 10 hours a week
- Scout and report thousands of players from across the country to pass along to coaching staff
- Converse with over 50 recruits per every 12-hour game day about the program

Pro Football Focus 8/2022 - Present
Quarterback and Coverage Charting Analyst

- Determining if the middle of the field is occupied pre and post snap
- Identified one of the twenty defensive coverage schemes each play
- Accurately chart the quarterback's throw and decisions throughout the 3+ hour game

Projects

NFL Big Data Bowl 2026 – Tracking Data Analysis Project

- Designed and implemented predictive models using player tracking data to identify receiver and cornerback movement patterns, route tendencies, and coverage reactions across multiple weeks of NFL game data.
- Developed an ensemble learning framework (LightGBM + XGBoost) and sequence modeling architecture (LSTM/GRU) in R to forecast post-release trajectories and route outcomes.
- Presented findings through animated data visualizations and play simulations

Running Back Value & Role Classification Model

- Designed and implemented a data-driven model to classify NFL running backs into 3 categories using k-means clustering on opportunity, efficiency, and context-adjusted features.
- Created a normalized Value Score to assess RB performance independent of game script or backfield competition, enabling fairer comparison across offensive schemes.

- Integrated salary cap data to build a contract-adjusted value model, identifying market inefficiencies and optimal roster fits.

Spread Formation Tactical Analysis Model

- Conducted a full-cycle analytics project using nflfastR and Sharp Football data to evaluate how spread formations impact success on short yardage situations
- Engineered features such as spread_usage_pct, play type, formation, and previous play success; built logistic regression models to predict red zone touchdown probability
- Visualized teams over/underperformance by comparing predicted vs. actual red zone TD rates

Certificates

Analyze Data with R on Codecademy June 2025, SQL Course with Codecademy May 2025, BI Dashboards with Tableau in Codecademy May 2025, Microsoft Azure AI Essentials with LinkedIn June 2025, GGPlot Course with Codecademy June 2025

Skills

R, SQL, Python, Tableau, Performance Evaluation, Excel, PowerPoint, Microsoft Azure AI, Data Visualization, Data Analysis Skills