

MICHAEL DUNK

Sports Analytics Developer | Data Analyst | Decision Support

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PROFESSIONAL PROFILE

Every meaningful decision in sport involves uncertainty. My work focuses on reducing that uncertainty by designing analytical systems that transform data into actionable insights.

As an independent analytics developer, I have built forecasting models, player valuation systems, and decision-support applications from concept through deployment. My projects combine statistical modelling, data engineering, automation, validation, and visualization to help users evaluate performance, quantify risk, and make more informed decisions.

I enjoy solving unfamiliar problems, challenging assumptions with evidence, and building analytical products that people can trust.

SPORTS ANALYTICS EXPERIENCE

ClutchSheets

Independent Sports Analytics Developer

2023 – Present

Design and develop analytical products that support decision making across professional sports through predictive modelling, statistical analysis, and interactive applications.

Key Contributions

- Built complete analytical applications from initial concept through production deployment.
- Collected, validated, and integrated data from multiple public sources into reliable analytical datasets.
- Developed forecasting, valuation, and pricing models using statistical analysis and probability modelling.
- Evaluated model performance through calibration, historical back-testing, benchmarking, and continuous refinement across more than 5,000 tracked sporting events.
- Automated analytical workflows to improve efficiency, consistency, and reliability.
- Built interactive dashboards and web applications that communicate analytical results to end users.
- Managed project planning, testing, deployment, maintenance, and ongoing model improvement.

PROFESSIONAL EXPERIENCE

Elementary Teacher

Durham District School Board — 2005 – 2024

Developed strong analytical, communication, and problem-solving skills through nineteen years of helping students understand complex concepts and make evidence-based decisions.

- Simplified complex information for diverse audiences.
- Used evidence to evaluate outcomes and improve performance.
- Designed structured processes that improved consistency and accountability.
- Managed competing priorities while maintaining accuracy and organization.

SELECTED PROJECTS

MLB First Five Forecasting Platform

Designed and deployed a predictive forecasting platform that estimates fair probabilities for Major League Baseball First Five Innings markets.

Highlights

- End-to-end predictive modelling
- Automated data preparation
- Historical validation and calibration
- Interactive reporting
- Production web deployment

NHL Performance Value Explorer

Developed a player valuation application that estimates market value from on-ice performance to support objective evaluation of contracts and roster construction.

Highlights

- Regression-based valuation model
- Interactive player comparisons
- Team and contract analysis
- Data visualization
- Decision-support reporting

Sports Market Pricing Platform

Built an analytical platform comparing sportsbook market prices with internally generated probabilities to identify pricing inefficiencies and expected value opportunities.

Highlights

- Probability modelling
- Market analysis
- Pricing evaluation
- Historical performance tracking
- Interactive dashboards

TECHNICAL SKILLS

Programming: Python • SQL • Git/GitHub

Analytics: Statistical Modelling • Forecasting • Data Validation • Decision Support

Tools: Excel • Power Query • Google Sheets • REST APIs

EDUCATION

Professional Program in Education — Medaille College

Specialized Honours Bachelor of Arts (Kinesiology) — York University