

# Luke Edwards

## Data Scientist

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### Summary

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Data Scientist with 2+ years of experience delivering ML models, AI-powered tools, and automation that improve decision-making speed by up to 90%. Master's in Economics with strong training in forecasting, statistics, and Python analytics. Proven ability to build explainable models, design interactive dashboards, and deploy LLM-based solutions for real business impact.

### Skills

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**Programming & Data Tools:** Python, SQL, Git, JupyterLab, Pandas, NumPy

**Data Visualization:** Power BI, Matplotlib, Seaborn

**Statistics & Analysis:** Regression, Time Series Forecasting, A/B Testing, Hypothesis Testing

**Machine Learning & AI:** scikit-learn, XGBoost, Random Forest, Feature Engineering, SHAP, NLP, LLMs, Prompt Engineering

### Professional Experience

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#### Data Scientist – CIBT (Remote, Contract)

May 2025 – Aug 2025

- Developed a Python-based ML model to explain NRPUs fluctuations by product and region using SHAP values, reducing manual variance analysis by 90%
- Engineered AI prompts in OpenAI to automate lead-sourcing research, reducing manual marketing effort by 70%
- Built fully automated Power BI dashboards to track commissions; designed filtering and revenue logic, enabling near-instant payout validation
- Delivered weekly insights and trend breakdowns to leadership, accelerating decision-making across multiple business lines

#### Senior Business Intelligence Analyst – CIBT (Remote)

Jul 2023 – Apr 2024

- Standardized enterprise-wide reporting, reducing redundant metrics by 60%
- Built KPI-driven Power BI dashboards, providing executives with real-time performance views
- Rewrote and optimized SQL queries to cut reporting load times by 43%
- Partnered with data engineers to develop DAX logic and integrate Snowflake pipelines, improving accuracy and scalability

#### Senior Financial Analyst – Interface Financial Group (Bethesda, MD)

Jun 2022 – May 2023

- Automated client analysis with Python, reducing processing time by 93% (20+ hours/month saved)
- Conducted credit risk and investment evaluations for small business clients, supporting multi-million-dollar funding decisions
- Integrated data-driven logic into underwriting, improving portfolio quality

### Projects

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#### Earnings Call Analysis & AI Insight Agent (Python)

- Designed NLP pipeline to scrape, clean, and process 500+ earnings call transcripts with sentiment scoring, topic modeling, and keyword extraction.
- Built an AI-powered assistant to query results in natural language, enabling sentiment, topic, and trend exploration

#### Customer Subscription Model (Python)

- Created a Decision Tree to predict subscription preferences using customer engagement/support history, improving targeting and retention strategies

#### Counter-Strike Match Outcome Predictor (Python)

- Developed ML model to predict esports match outcomes using team performance metrics and map history, simulating best-of-three series for win probabilities

### Education

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#### Master of Economics – Boise State University

2020 – 2022

#### Bachelor of Science in Economics – University of La Verne

2016 – 2019

### Certifications & Activities

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#### Google Advanced Data Analytics Professional Certificate

2024

#### Collegiate Esports Team Captain – Boise State University

2020-2022

#### NCAA Collegiate Basketball Player – University of La Verne

2016-2019