

# IAN ALLOWAY

AI/ML Engineer | Data Scientist | Business Intelligence Specialist

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## PROFESSIONAL SUMMARY

Data Scientist and AI Engineer pursuing an MS in Artificial Intelligence at the University of South Florida. Builds production ML systems, blockchain analytics pipelines, and AI-powered products. Open-source contributor to OpenClaw (194k+ stars). Founder of Alloway LLC, delivering data-driven solutions across sports analytics, fintech, and cybersecurity. Proven track record of reducing fraud incidents by 30% through AI-based anomaly detection and improving client operational efficiency by 40%.

## TECHNICAL SKILLS

**AI/Machine Learning:** Python, TensorFlow, PyTorch, Scikit-learn, XGBoost, Deep Learning, NLP, Computer Vision, YOLOv8, Time Series Forecasting

**Data Engineering:** SQL, PostgreSQL, Oracle, Microsoft SQL Server, PL/SQL, Pandas, NumPy, Redis, ETL Pipelines

**Visualization & BI:** Tableau (Certified Professional), Power BI, Google Analytics, Statistical Analysis, Dashboard Development

**Cloud & DevOps:** AWS (Certified Practitioner), Docker, Git, APIs, Node.js, React, TypeScript, FastAPI, Tailwind CSS

**Blockchain:** Ethereum, Solana, Polkadot, Smart Contracts, Solidity, Web3.js, Ethers.js, NFT Technology

**Autonomy:** MAVLink, PX4, ArduPilot, Path Planning (A\*, RRT\*), Sensor Fusion, EKF

## PROFESSIONAL EXPERIENCE

**Founder & Business Owner** | Alloway LLC | Morgantown, WV | July 2023 - Present

Founded data consultancy delivering AI-powered solutions to e-commerce and enterprise clients across multiple industries

Developed and deployed machine learning models automating decision-making processes, improving client operational efficiency by 40%

Built custom Tableau and Power BI dashboards for real-time data tracking across marketing, logistics, and customer service

Implemented cybersecurity audits and protocols, significantly mitigating client risk exposure

Advised startups on automation strategies, digital transformation, and data infrastructure architecture

**Data Auditor / AI Engineer** | Omniichain | Delaware, USA | Jan 2020 - Dec 2024

Engineered AI-based anomaly detection tools analyzing multi-chain blockchain data, reducing fraud incidents by 30%

Extracted and normalized blockchain data from Ethereum, Solana, and Polkadot networks using Python and SQL

Collaborated cross-functionally with engineering and DevOps teams to deploy analytics tools via RESTful APIs

Conducted performance benchmarking of smart contract data operations, optimizing query efficiency

Built interactive dashboards visualizing token flow, market movements, and transactional health for investors and auditors

**Task Force Manager** | Hilton Hotels | Tampa, FL | Aug 2020 - Sept 2023

Directed operational improvements across multiple Hilton locations during transitional and underperforming phases

Achieved measurable guest satisfaction increases of up to 20% at assigned properties through process optimization

Managed property P&L, budgeting operations, and vendor relations during temporary assignments

Provided leadership coverage ensuring uninterrupted property performance across regional portfolio

**Sales & Purchasing Manager** | IT Parts and Spares Ltd. | Miami/Fort Lauderdale, FL | Sept 2018 - Aug 2023

Led purchasing operations with international vendors for HP, IBM, Lenovo, and Dell hardware, reducing costs by 15%

Collaborated with IT teams to recommend and implement procurement automation tools

Monitored market trends to forecast demand and negotiate better pricing agreements

#### **Sales Team Lead | CvMcDowell | Miami/Fort Lauderdale, FL | Dec 2016 - Sept 2018**

Achieved Top 10 National Sales Ranking for 12+ consecutive months through strategic outreach

Led CRM adoption initiative, improving tracking and management of client interactions

Analyzed customer data to drive upsell and retention strategies, improving closing rates

## **KEY PROJECTS**

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### **AI Advantage Sports - [aiadvantagesports.com](http://aiadvantagesports.com)**

Sports betting platform with integrated XGBoost ML predictions, Kelly Criterion bet sizing, and value bet detection for NBA games. Model achieved 68% prediction accuracy. (React, Python, XGBoost)

### **Money Maker Bot - [github.com/ianalloway/Money-maker-bot](https://github.com/ianalloway/Money-maker-bot)**

Financial intelligence assistant built on OpenClaw for sports odds analysis, NFT price tracking, and portfolio visualization. Published custom skills to ClawHub marketplace. (TypeScript, OpenClaw)

### **Drone AI - [github.com/ianalloway/ai-drone-auto-vehicle](https://github.com/ianalloway/ai-drone-auto-vehicle)**

Autonomous vehicle intelligence platform with YOLOv8 computer vision, A\*/RRT\* path planning, behavior trees, and MAVLink drone integration. (Python, PyTorch, MAVLink)

### **Sports Betting ML - <https://huggingface.co/spaces/ianalloway/sports-betting-ml>**

NBA game prediction model deployed on HuggingFace. XGBoost classifier with feature engineering on player stats, team metrics, and historical matchups. (Python, XGBoost, Streamlit)

### **Mutant Intelligence**

Web3 application transforming Mutant Ape Yacht Club NFTs into AI assistants with traits-based personality. (React, Ethereum, Web3.js)

## **OPEN SOURCE**

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**OpenClaw** — Active contributor to the 194k+ star AI agent framework. Bug fixes, skill system improvements, and published 4 skills to [ClawHub](#): sports-odds, nft-tracker, data-viz, screenshot-annotator.

## **EDUCATION**

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**Master of Science in Artificial Intelligence (MSAI)** | University of South Florida | Expected Dec 2027

**Bachelor of Science in Data Science and Analytics** | University of South Florida | Expected Dec 2025

**Diploma in Hospitality Management** | Commonwealth University | June 2022

## **CERTIFICATIONS**

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Deep Learning Specialization - Coursera (Andrew Ng)

Machine Learning Engineering - Google Cloud

AWS Certified Cloud Practitioner

Blockchain Fundamentals - UC Berkeley Extension

Tableau Desktop Certified Professional

Oracle Database SQL Certified Associate

## **AWARDS & RECOGNITION**

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Leader of the Quarter Nominee - Wyndham Grand Clearwater Beach

Top 10 National Sales Performer (12+ months) - CvMcDowell

Ascend West Virginia Recipient - Entrepreneurship Program

OSHER Scholarship Recipient - Multiple Awards

## WRITING

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**Alloway AI ([Substack](#))** — Technical writing on ML model development, AI agent architecture, and sports analytics. Recent posts: "How I Built an ML Model That Beats Vegas (Sometimes)" and "Building a Job Fit Analyzer with NLP and React."