

# Bharat Ram Ammu

Analytics Manager at Interactive Brokers UK

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**Location:** London, United Kingdom

## Objective

Data science leader with 7+ years of experience in the deployment of AI solutions, reducing operational risks, and delivering measurable business impact through scalable machine learning models.

## Skills

- Agile Project Management
- Machine Learning
- Data Science
- Cloud Platforms (AWS, GCP, Azure)
- Python, Django, Flask
- Docker, Kubernetes, MLFlow, Kubeflow
- SQL, Neo4j
- Agile (Scrum, Kanban)
- SAS, Bash, Selenium
- GitHub, Bitbucket, Jira, Asana

## Work Experience

### Model Governance and Analytics Manager

*Feb 2025 – Present*

Interactive Brokers, London, United Kingdom (Hybrid)

- Leading governance, validation, and tuning of AML, Trade Surveillance, and Sanctions models—spanning machine learning, rule-based, and GenAI-based approaches.
- Conducting in-depth financial crime analytics and model performance validation using Python and SQL.
- Optimizing detection thresholds to balance regulatory risk exposure with operational false positive rates.
- Ensuring full compliance with internal governance frameworks and evolving regulatory expectations for AI/ML and GenAI models.

### Head of Data Science

*April 2023 – Feb 2025*

Complidata, Tervuren, Belgium

- Led development and product management of the FCRR platform, collaborating with product owners and cross-functional squads to deploy machine learning pipelines, improving model efficiency by 15% and reducing false positives by over 30%.
- Adapt AI strategy with broader business objectives, ensuring that data science initiatives contributed to compliance, risk reduction, and measurable business outcomes.
- Managed and mentored the data science team, increasing productivity by 20% through workflow optimization, while overseeing resource allocation and long-term AI strategic planning.

### Data Science Consultant

*April 2022 – April 2023*

Complidata, Tervuren, Belgium

- Delivered strategic consulting, optimizing machine learning models to improve the efficiency of financial crime risk detection, reducing review times by 15%.
- Developed and deployed explainable ML models, lowering false positives in money laundering detection, leading to a reduction 10% in manual investigations.

- Collaborated with cross-functional teams to integrate data insights into business strategies, boosting decision-making speed and accuracy.

### Senior Data Scientist

January 2019 – April 2022

Complidata, Tervuren, Belgium

- Pioneered model explainability research using LIME and SHAP, reducing false positives by 30-70% for AML compliance and KYC PEP/Sanctions screening.
- Developed an automated narrative generation tool for ML outputs, increasing client trust by 25%, as per feedback from AML investigators.
- Built a user-friendly ML product using Flask and Kubeflow, enabling non-technical users to manage ML pipelines with customizable classification models.
- Led the development of network risk scoring models using Neo4j, reducing risk exposure by 10%.

### Junior Data Scientist

April 2017 – Dec 2018

Complidata, Tervuren, Belgium

- Developed ML models and analytics solutions, reducing manual data analysis efforts by 15% and improving report generation efficiency.
- Automated alert investigations using web scraping with Selenium, enhancing Customer Due Diligence (CDD) workflows as part of KYC.
- Published a master's thesis in collaboration with Complidata, optimizing false positives for AML compliance using interpretable ML models.

## Education

### Master of Science in Statistics

2016 – 2018

KU Leuven, Belgium — a globally ranked university consistently in the top 50

### Bachelor of Technology in Metallurgical & Materials Engineering

2010 – 2014

National Institute of Technology (NIT), Warangal, India

## Key Projects

- **Transaction List Sanctions Screening Optimization (TLS):** Clients: Belfius Brussels, BNP Paribas Paris
- **Transaction Monitoring Optimization (TMO):** Clients: Allied Irish Bank, Raiffeisen Bank, Commerz Bank
- **Name Screening Optimization:** Clients: Belfius Belgium, GPM France, Klaesia Insurance France
- **Open-Source Intelligence (OSINT):** Client: DLL Netherlands

## Languages

- **English:** C2 (Proficient)
- **Hindi:** C2 (Proficient)
- **Dutch:** A2 (Intermediate)
- **Telugu:** C2 (Native)
- **French:** A1 (Beginner)