

# RONAN BANERJI

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## WORK EXPERIENCE

### **Wall Street Oasis**

*Financial Research Analyst Intern*

**New York, NY (Remote)**

*Mar 2025 - Present*

- Researched and authored 5 in-depth articles on financial concepts, covering topics such as using KPIs to drive operational improvement and exploring the psychology behind financial bubbles.
- Completed more than 100 hours of courses including AI-for-Finance that covered time series forecasting, natural-language processing of earnings-call transcripts, and AutoML workflows, building prototypes in Python with pandas, scikit-learn, Prophet, and Hugging Face transformers.

### **Schneider Electric**

*AI Industry Consulting Analyst Intern*

**Boston, MA, USA**

*Nov 2022 – Sept 2023*

- Worked on 11+ projects; handling data ingestion, feature engineering, model training, deployment, and monitoring.
- Power Usage Effectiveness Optimisation Project: engineered a multi-armed bandit RL model that optimised a data centre to optimise efficiency. This proof of concept drew attention from companies such as CyrusOne.
- Collaborated with AWS to design and engineer a cloud-agnostic architecture allowing clients to store, deploy and monitor model performance regardless of the cloud platform as well as track the model drift.
- Built ARIMA based forecasting services for micro-grid consumption, exposing predictions through FastAPI endpoints and streaming them into dashboards.
- Created generative AI frameworks producing compliant synthetic datasets for 2 R&D projects, minimising sensitive data use and reducing overall costs.
- Delivered a PyTorch and OpenCV edge computer-vision service that detects production-line defects with 96% accuracy; packaged the model in a CUDA-enabled container.
- Developed REST API data access protocol between departments streamlining onboarding and internal processes for improved knowledge transfer and scalability as well as providing more data sources for the AI hub.

## EDUCATION

### **Swansea University – School of Engineering**

*Bachelor of Engineering (BEng) in Materials Science and Engineering*

**Wales, UK**

*Class of 2024*

- 2:1 Honours (Cumulative GPA: 3.7)
- Relevant Coursework: Manufacturing Technology, Advanced Computational Methods, Mathematics for Engineering, Engineering Management, Software Engineering.
- Dissertation: Deep Learning-Based Image Analysis for Assessing Grain Size, Volume Fraction, and Porosity in Ti-6Al-4V - grade: 84%.
- Honours Award: For research contributions bridging materials science and AI-driven process improvements; recognised for consistent academic excellence throughout the programme.

## LEADERSHIP

### **British Army Reserve – 3PWRR**

*Private*

**Sussex, UK**

*Jan 2024 – Present*

- Led small-unit training drills and ensured readiness despite tight timelines and unpredictable conditions.
- Mentored 8+ new recruits on core procedures and personal development, establishing discipline and collaboration.
- Collaborated with senior NCO's to manage daily logistics, ensuring operational readiness and team discipline.

## ADDITIONAL INFORMATION

**Languages:** Fluent in English and Hindi

**Modelling:** Level 2 Certificate in Financial Studies (LIBF), Wall Street Oasis DCF & Valuation modelling course

**Computer:** Proficient in Microsoft Office (Excel, PowerPoint), Python, PowerBI, Azure, AWS, SQL, TensorFlow, C#

**Interests:** Golf (Handicap 8), piano and jazz guitar (played professionally at events), robotics, history

**LinkedIn:** <https://linkedin.com/in/ronan-banerji>