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Recruitment Team European Bank for Reconstruction and Development

London,

United Kingdom

Dear Hiring Manager,

I am writing to express my interest in the AI/ML Engineer Intern position at the European Bank for Reconstruction and Development. With a strong foundation in data science, machine learning, and economic modeling from my MSc in Data Science and Economics at UCL, I am excited about the opportunity to contribute to EBRD's innovative AI initiatives while expanding my expertise in cloud-based AI solutions.

My academic and professional background aligns well with the requirements outlined in your job posting. My experience as a Quantitative Analyst/Machine Learning Engineer Intern at Bank of Communications BBM equipped me with practical skills in developing predictive models, implementing feature engineering techniques, and optimizing data pipelines.. During this role, I enhanced a macroeconomic predictive model by applying advanced regularization techniques and automating data pipelines through API integration, resulting in measurable improvements in model accuracy and operational efficiency.

What particularly attracts me to this position is the opportunity to contribute to the EBRD's Operational Effectiveness and Efficiency programme while gaining hands-on experience with Azure AI services. I am passionate about leveraging innovative ML methodologies to solve complex financial problems, as demonstrated through my thesis on "Systemic Risk Prediction Using Deep Graph Neural Networks" and my Q-Learning for Black-Scholes Hedging project, where I implemented reinforcement learning techniques for optimal financial hedging strategies.

My technical skills in Python, data preprocessing, and machine learning align well with your development requirements. Though my direct experience with Azure cloud technologies is limited, I am a quick learner with a strong foundation in cloud concepts and a keen interest in expanding my knowledge in this area. As co-founder of Manesolutions LTD, I have designed and implemented RESTful APIs and developed scalable software products, showcasing my ability to deliver practical business solutions through technology.

I am particularly excited about the prospect of:

- Building and deploying AI-powered applications using Python frameworks within the Azure ecosystem
- Contributing to data ingestion pipeline development and vector store implementation
- Collaborating across functional teams to design effective AI solutions for real-world banking challenges
- Learning and growing within EBRD's innovative technology environment

The opportunity to work at an institution that combines technological innovation with meaningful economic development aligns perfectly with my professional aspirations. I am confident that my strong technical foundation, combined with my eagerness to learn and contribute, would make me a valuable addition to your AI/ML team.

Thank you for considering my application. I look forward to the possibility of discussing how my skills and enthusiasm can contribute to EBRD's AI initiatives.

Sincerely,

Sofian Othmane