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Dear Hiring Manager,

I am writing to apply for the Applied AI Associate role (Job ID 210704144) in JPMorgan Chase's Corporate Functions team. I hold a PhD in Computational Finance and have hands-on experience building and running AI systems in regulated, data-heavy environments. I am excited about the chance to help JPMorgan deliver reliable AI solutions for Risk, Finance, Compliance and Legal teams.

In my current role as a Software Engineer at the University of Essex, I build AI systems that use large language models together with cloud data pipelines to automate business workflows for external partners. This includes LLM-based data extraction and checking, as well as fully automated CI/CD pipelines to make sure systems are deployed in a safe and repeatable way. Before this, at the UK Data Service, I built Python and JavaScript applications integrating and fine-tuning LLMs (with vLLM and Ollama) to automate metadata processing, disclosure-risk checks and data quality control for sensitive research data. These tools helped non-technical users work faster while still meeting strict security and governance rules.

My academic background also fits this role well. During my PhD in Computational Finance, I built a transfer-learning-based Bayesian Model Averaging system to forecast financial variables, published papers in international computer science journals, and released open-source software that other developers now use. I am comfortable moving from research and testing into building stable, production-ready systems.

Alongside my professional work, I built and deployed a personal OCR project for Magic: The Gathering cards that is used by around 50 users per day. The system runs on a Raspberry Pi and uses Python and C++ to scan card images, recognize text, and match it against a PostgreSQL database to return live market prices through a web interface built in JavaScript using Vite and React. This project gave me hands-on experience with end-to-end Computer Vision development, from data processing to deployment on real hardware.

I am especially interested in this role because it covers the full process: from getting and exploring data, to building models, writing software and deploying it in the cloud. My experience with LLMs, NLP, C++, Python and AWS has prepared me to work closely with both technical and business teams and to deliver AI systems that solve real problems.

JPMorgan's focus on safe, well-governed AI matches my own experience working with sensitive data and controlled analytics. I would be very happy to bring my skills in applied AI, financial modelling and software engineering to your Corporate Functions team.

Thank you for your time and consideration. I look forward to the opportunity to discuss my application.

Kind regards,

Ivan Evdokimov