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Dear Hiring Manager,

I am writing to express my keen interest in the Lead Data Scientist position at SEEK. With a PhD in Engineering and over three years of industry experience in Data Science and AI Engineering, I am confident that my qualifications align strongly with the requirements of this role. I am particularly drawn to SEEK's mission of empowering individuals and organizations through technology, and I appreciate your commitment to a high-performance, inclusive culture.

My expertise lies in guiding AI/ML products and building end-to-end data-driven solutions. At CSL Limited, I am actively developing a hybrid model that integrates ML algorithms with a mechanistic framework to predict pharmaceutical bioreactor performance. Furthermore, I have leveraged advanced LLM capabilities by developing a CSL chatbot utilizing RAG for context-aware SQL query generation, significantly enhancing experimental workflows. I also developed a RAG-based system for the extensive ANSYS user guide, which greatly improved search efficiency. My proficiency across Python, PyTorch, Scikit-learn, AWS, Docker, and Databricks ensures I can build and deploy scalable ML models effectively.

I am adept at delivering insightful analysis that drives impactful decision-making and optimization. As a Research Fellow at the University of Melbourne, I developed multi-scale digital twins of bioreactors, which reduced reliance on physical experiments and improved bioprocess performance by up to 30%. My experience in experimental design and optimization would translate directly to designing and interpreting A/B tests to rigorously evaluate data-driven initiatives. Additionally, I have optimized cloud-based ETL pipelines by developing API endpoints and SQL queries to ensure

efficient data management and delivery.

My leadership and collaborative skills are well-honed from diverse projects. At CSL, I apply strategic thinking and foster close collaboration with stakeholders by leading weekly meetings and reviewing progress. During my PhD, I led three industry-oriented projects in collaboration with major hospitals, demonstrating my capabilities in project oversight and stakeholder management. I am committed to mentorship and developing technical capabilities within a team, reflected in my soft skills in communication and my role as Deputy Chair of the Early and Mid-Career Researcher Committee. I am confident in my ability to collaborate effectively with cross-functional teams including Product, Engineering, and Strategy.

I am enthusiastic about the opportunity to bring my technical expertise in AI/ML, proven leadership in complex data projects, and strong collaborative skills to SEEK. I am eager to contribute to your innovative environment and would welcome the chance to discuss my application further.

Sincerely,

Mariia Timofeeva