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Dear Hiring Manager,

I am writing to express my strong interest in joining your team in the field of **Data Science**. With a background in Computer Science and currently pursuing a **Master's degree in Data Science at RMIT University**, I am enthusiastic about the opportunity to contribute my skills and knowledge to your organization.

My educational journey has equipped me with a solid foundation in Data Science, covering essential topics such as database concepts, practical data science with Python, programming fundamentals, and data science professionalism. At RMIT University, I have deepened my understanding of these subjects while honing my problem-solving and analytical skills, preparing me for real-world challenges.

In addition to my academic background, I bring practical experience from my time as an Associate Software Engineer at **Ernst & Young**. During my tenure, I received training in building APIs using the .NET framework, enabling me to work on robust and scalable applications. Moreover, I completed a bootcamp training where I enhanced my presentation and communication skills, enriching my ability to effectively convey complex technical ideas.

Further enhancing my skill set, I gained valuable experience during software engineering internships at **RedBlackTree** and **Bharat Electronics Limited**. These opportunities allowed me to develop proficiency in the Mendix platform for application development and acquire knowledge of Camunda for bpmn and dmn process modeling. I also worked extensively with REST APIs and automation using Workflow Engines, broadening my technical expertise.

As a campus ambassador for **GirlScript Summer of Code**, I refined my technical skills and learned the importance of effective teamwork, communication, and project management. This experience reinforced my commitment to collaborative problem-solving and achieving project success.

Additionally, as a **Student Ambassador at RMIT University**, I strengthened my professional network and communication skills through collaborative teamwork, enhancing my ability to effectively convey ideas.

During my final year at college, I undertook a compelling **project titled "Empirical Analysis for Crime Prediction and Forecasting using Machine Learning and Deep Learning Techniques."** This project was recognized among the best at our institution. I utilized various machine learning and deep learning algorithms including XGBoost, Decision Tree, Logistic Regression, and MLP to predict future crime types from the Chicago dataset. By leveraging factors such as location, time, weather conditions, and historical crime data, I achieved impressive accuracy rates:

- **XGBoost: 92%**
- **Decision Tree: 89%**
- **Logistic Regression: 87%**
- **MLP: 86%**

This project not only enhanced my proficiency in data analysis and predictive modelling but also underscored the practical applications of machine learning in addressing societal challenges like crime prevention and forecasting.

Additionally, I implemented a machine learning model in Python to predict house prices using the Boston Data Set, employing regression analysis and feature engineering techniques to enhance accuracy in price estimation. To further enhance my skills in JavaScript, I developed interactive games like the Snake and Ladder Game and the Card Guessing Game, mastering HTML, CSS, and JavaScript.

I also completed the **Data Science Bootcamp** by **GeeksforGeeks**, where I gained proficiency in essential tools and technologies for Data Science, Data Analysis, and Machine Learning. This comprehensive training provided hands-on experience with Python and advanced Machine Learning concepts.

My journey into **cloud computing** began with a challenging assignment where I developed a **Music Subscription Application using Python, AWS S3, and DynamoDB**. I successfully deployed the application on a free-tier EC2 instance running Ubuntu Server, gaining hands-on experience in cloud infrastructure and problem-solving in a real-world context.

Moreover, I explored **data visualization** by creating insightful dashboards using R. As part of an assignment, I developed interactive visualizations that effectively communicated complex data relationships and trends. This project highlighted the importance of clear data communication in informing strategic decision-making. You can explore my work at <https://meghabendre21.shinyapps.io/Final-Visualisation-Assessment/>.

I am highly motivated to contribute my skills and knowledge to your organization and to continue my journey in the field of Data Science. I believe that my academic background and practical experience have equipped me to be an asset to your team. Given the demands of my coursework, I am eager to reschedule an interview at your convenience.

As an **International Student under subclass 500** with a current **Student visa**, I am writing to inform you that during the official university holiday, I do not have any work restrictions and am available to work **full-time**. This allows me to fully commit to any opportunities during this period.

Thank you for considering my application. I look forward to the opportunity to discuss how my skills and experiences align with the needs of your organization. Please feel free to contact me at **+61414016379** or **meghabendre21@gmail.com** to schedule an interview.

Sincerely,
Megha Chandra Shekar