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Dear Three Ireland,

I am writing to express my enthusiasm for the Data Scientist position at your organization. With extensive experience in AI/ML solutions, predictive analytics, and MLOps, I am eager to bring my expertise to Three Ireland. My background in developing and deploying advanced machine learning models aligns well with the innovative projects.

As a Data Scientist at Edubridge India Pvt. Ltd., I led the development of a scalable data pipeline that significantly enhanced forecasting accuracy for a retail client, achieving a MAPE (Mean Absolute Percentage Error) of 10%. I collaborated with cross-functional teams to produce machine learning models on AWS, leveraging tools such as Keras, TensorFlow, and sklearn. My work also included optimizing deep neural networks for banking clients using advanced techniques like Batch Normalization, Dropouts, and Early Stopping, which improved model efficiency and performance.

At All Soft Services and Solutions, I spearheaded a project for a transportation company, optimizing fares and predicting demand, which increased operational efficiency. My role involved extensive exploratory data analysis and feature engineering, ensuring robust and accurate model predictions. Additionally, my experience as a Data Science Instructor allowed me to mentor students in data science and machine learning, further refining my ability to communicate complex concepts effectively.

My technical proficiency spans Python, MySQL, PowerBi, AWS, and deep learning frameworks. I am skilled in data cleaning, transformation, and visualization, and have a strong foundation in regression analysis, statistical concepts, and analytical reporting. My ability to manage end-to-end projects, from data ingestion and preprocessing to model deployment and performance evaluation, aligns with the responsibilities of a Data Scientist at any prestigious organization.

Notable projects during my academic and professional journey include:

- **Automated Video Surveillance System with Email attachment system**: Developed using with YOLO v8 transformer model, achieving a 76% accuracy rate in anomaly detection.
- **Speech Emotion Recognition**: Implemented a CNN model to classify speech into seven emotion classes, utilizing MFCC features and spectrograms.
- **End-to-End Insurance Premium Prediction System**: Leveraged MLOps techniques and AWS integration to improve risk assessment and pricing strategies, achieving a MAPE of 1.6%.

My master's degree in Artificial Intelligence from Dublin Business School and a Bachelor of Computer Applications from Sikkim Manipal University have provided a strong academic foundation. Additionally, certifications in Machine Learning and Deep Learning from IBM and Databricks underscore my commitment to continuous learning and staying abreast of the latest advancements in the field.

I am confident that my skills and experience make me a strong fit for the Data Scientist role, and I am excited about the opportunity to contribute to Three Ireland.

Sincerely,

Karan Mehta