

## Re: Application for Data & AI Role

Dear Hiring Manager,

I am writing to express my interest in the open data and engineering position at your company. With a Master of Science in Computer Science and practical industry experience deploying models at Cognizant Technology Solutions, I am confident I can contribute effectively to your engineering team.

My technical background is focused on building and deploying robust Machine Learning systems rather than just analyzing data. I have strong proficiency in Python and Java, and I use them to architect scalable solutions.

During my time as a Programmer Analyst, I moved beyond theory to handle the full lifecycle of ML development. I engineered predictive models using XGBoost and TensorFlow and improved their accuracy by 20 to 30 percent through rigorous hyperparameter tuning. I also focused heavily on the operational side. I successfully automated large scale ETL workflows which reduced manual intervention by 40 percent. My experience includes deploying containerized models using Docker and Flask to ensure they function reliably in production environments.

I am also deeply involved in the latest advancements in AI. My recent work involves utilizing Large Language Models and Transformers. I have fine-tuned DistilBERT for emotion classification and developed neural transformers with multi head attention for recommendation systems. I am comfortable working with complex libraries like Hugging Face and implementing Deep Learning architectures such as CNNs and RNNs.

In addition to modeling, I have the cloud and infrastructure skills to support these applications. I have worked with AWS services like EC2 and S3 and SageMaker and I understand how to manage data pipelines using Hadoop and Spark.

I am looking for a role where I can apply these engineering skills to solve real problems. I am eager to discuss how my background in Machine Learning and MLOps aligns with your technical needs.

Thank you for your time and consideration.

Sincerely,

**Ravisankar Chengannagari**

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