

Dear Hiring Manager at TCS,

I am excited to apply for the Gen AI Internship leading to full-time at TCS. I am currently pursuing a Bachelor's degree in Computer Engineering with a Minor in Artificial Intelligence, and I am eager to contribute my skills in Generative AI, cloud technologies, and backend development to support TCS's advanced AI initiatives. I am also fully open to relocation for this opportunity.

My academic journey has been complemented by hands-on internship experiences in AI and Generative AI. As a Gen AI Engineer Intern at IBM, I focused on backend development and API integration, building a Python code analysis feature using Milvus, LangChain, prompt engineering, and LLM APIs. At AIEnsured, I worked as an Intern of AI and ML Technologies, where I worked on creating a RAG evaluator across metrics such as correctness, relevance, retrieval relevance, and groundedness, and also finetuned a foundational model to generate images within a specific theme. Furthermore, as a Gen AI Extern at Cognizant, I gained experience leveraging Python libraries to create Gen AI-powered applications.

Alongside internships, I have completed multiple AI-driven projects. For instance, I developed a Digital Twin model using a spatio-temporal transformer to predict emergencies. Through feature engineering and data preprocessing, I improved its accuracy from 30% to 70%, and was able to increase the complexity of the model. I also built a Weather Classification and Prediction model using CNNs and RNNs in PyTorch, and evaluated it with metrics like precision, recall, and F1-score. These experiences gave me practical exposure to building, evaluating, and refining models with measurable impact.

To further strengthen my skills in AI, I have earned IBM AI Developer and AWS AI Practitioner Certificates. I have also earned AWS Cloud Practitioner and Azure Certifications, aligning with the technical requirements for this role. Combined with my proficiency in Python, familiarity with PyTorch, and experience with prompt engineering and LLM APIs, I am confident in my ability to contribute meaningfully to TCS's Generative AI projects.

I am eager to bring my knowledge and passion for AI to TCS, and I would welcome the opportunity to discuss how my background aligns with your team's goals.

Thank you for your time and consideration.

Sincerely,
Kartik Tyagi