

Dear Hiring Team,

I am thrilled to apply for the AI Integration Engineer Intern position at iVoyant. As a master's student in Computer Science at Northern Arizona University, I bring a deep passion for artificial intelligence and a robust background in developing large language model (LLM)-based applications, retrieval-augmented generation (RAG) systems, and enterprise integration workflows. My professional experience at Infosys and Tata Consultancy Services, combined with my academic projects, has equipped me with the skills to contribute meaningfully to your innovative team.

At Infosys, as an AI Engineer, I designed and deployed LLM-based predictive models using Python and TensorFlow, integrating them into production systems via RESTful APIs to improve scalability by 20%. I optimized deep learning models (CNNs, RNNs) through prompt engineering and hyperparameter tuning, achieving a 30% reduction in inference time, and developed automated data pipelines with AWS SageMaker and Pandas, cutting preprocessing time by 40%. Additionally, I integrated IBM API Connect with AWS infrastructure to secure and manage APIs for machine learning services, enhancing gateway performance by 15%. These efforts reflect my ability to create and refine AI-driven workflows—a core aspect of this role.

At Tata Consultancy Services, I served as a Junior AI Engineer, where I implemented machine learning algorithms with PyTorch and Scikit-learn, boosting fraud detection accuracy by 18% for financial clients. I deployed AI models on Google Cloud Platform, optimizing resource usage to reduce operational costs by 15%, and utilized Google Apigee to design low-latency APIs (20% improvement) for seamless third-party integrations. I also automated CI/CD pipelines with Jenkins and Git, ensuring 99% uptime for AI workflows, and engineered features from datasets exceeding 100K records to enhance model efficiency by 25%.

My current academic project, an Intelligent Learning Assistant, leverages Azure OpenAI and vector database techniques to deliver secure, context-aware responses with prompt injection detection. By applying RAG principles and refining prompts, I've built a scalable solution that showcases my ability to tackle complex challenges independently—skills I'm excited to bring to iVoyant. My technical expertise spans Python, Java, TensorFlow, PyTorch, and cloud platforms (AWS, Azure, Google Cloud), complemented by an IBM AI Engineering Professional Certificate and practical knowledge of REST APIs and integration patterns from tools like IBM API Connect and Google Apigee.

I am inspired by iVoyant's mission to pioneer AI-driven enterprise solutions and am eager to contribute my blend of technical proficiency, problem-solving ability, and enthusiasm for innovation. Thank you for considering my application—I would be delighted to discuss how my experience aligns with your team's goals and vision.

Sincerely,
Jasweeer Naidu Tadikonda