

Sruthi Samhitha Parimi

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Dear Hiring Manager,

I am writing to express my strong interest in the position recently posted. I hold a Master's in Data Science, Analytics, and Engineering from Arizona State University and over three years of experience in machine learning engineering, applied AI research, and computer vision. My work reflects a solid blend of scientific rigor and real-world deployment expertise.

At ASU, I am currently working on multimodal AI and computer vision. One of my core projects, VisLang-Gen, leverages BLIP-2 for image-text alignment and Stable Diffusion for instruction-guided image generation. This work showcases my ability to build robust, end-to-end pipelines for vision-language modeling using PyTorch and HuggingFace Transformers. In parallel, my project AffordanceLLM combines CLIP and ViLT with BERT-based decoders to predict object affordances—highlighting my commitment to explainable AI and advanced representation learning.

Previously, as an IoT Researcher at IIIT Hyderabad, I developed an edge-deployable ML pipeline to digitize analog water meter readings using Random Forests, HOG features, and OpenCV. Achieving 97.7% validation accuracy, I integrated the system with Raspberry Pi and ThingSpeak for cloud-based analytics, resulting in a 60% reduction in data latency and enabling real-time anomaly detection in low-bandwidth environments.

Before that, at Infosys, I engineered predictive models to optimize logistics and supply chain operations, improving efficiency by 20%. I automated analytics workflows using SQL, Tableau, and Snowflake—gaining experience with both classical ML techniques like Random Forests and XGBoost, and modern NLP frameworks including BERT and diffusion models.

In my role as a Visual Analytics Researcher at ASU, I have built a scalable cloud-indexing pipeline for over a decade of satellite data and led a 150-participant user study to assess the perceptual accuracy of visual encodings. These projects required extensive work in data engineering, statistical modeling (Chi-Square, ANOVA, logistic regression), and dashboard development using D3.js and Python.

I am especially excited by roles that require cross-functional collaboration, ownership of ML-driven product roadmaps, and innovation in areas like multimodal LLMs, knowledge graph enrichment, recommendation systems, and search optimization. I thrive in fast-paced environments where experimentation, reliability, and user-centric design intersect.

Thank you for your time and consideration. I look forward to the opportunity to discuss how my background and skills align with the goals of your team. I am available for a discussion at your earliest convenience and can be reached via phone at (623) 320-6751 or email at sruthisamhithaparimi@gmail.com.

Best regards,

Sruthi Samhitha Parimi