

SHREYAS MOCHERLA

Kubestronaut | TensorFlow Certified Developer | NVIDIA DLI Instructor & University Ambassador
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TECHNICAL SKILLS

Cloud & Containers: Kubernetes (CKA, CKAD, CKS, KCNA, KCSA - Kubestronaut), Docker, Helm, Linux (LFCS), Kyverno
AI/ML Frameworks: TensorFlow (Certified), PyTorch, Keras, Hugging Face, LangChain, Azure OpenAI, Azure Cognitive Search
Deep Learning & LLMs: CNNs, Diffusion Models, RAG Pipelines, Rerankers, ReAct Agents, Reinforcement Learning, Computer Vision
Programming & Tools: Python, JavaScript/TypeScript, Git, NVIDIA Microservices, Portkey, Streamlit, Vector Databases

EXPERIENCE

Software Engineering Intern | *Nirmata* | *Present*

- Build AI-driven cloud-native solutions and contribute to Kyverno, a Kubernetes-native policy engine
- Implement enterprise security and compliance solutions for container-based applications
- Engage with cloud-native community at KubeCon and CNCF conferences

Product Engineer Intern | *InfraCloud Technologies* | *Jun 2024 - Sep 2024*

- Set up Kubernetes infrastructure for Generative AI applications; automated end-to-end provisioning for GenAI workloads
- Built InSightful, a RAG-enabled ReAct agent for technical communities; featured on CNCF blog
- Authored technical content on improving RAG accuracy with rerankers using LangChain, Tavily, and Portkey

NVIDIA DLI Certified Instructor & University Ambassador | *NVIDIA* | *Present*

- Deliver instructor-led workshops on Deep Learning fundamentals and Generative AI with Diffusion Models
- Lead university outreach initiatives to promote AI education and NVIDIA technologies

EDUCATION

Missouri University of Science and Technology | Rolla, MO | Aug 2021 - Dec 2025

CERTIFICATIONS

Kubestronaut (CKA, CKAD, CKS, KCNA, KCSA) - Linux Foundation/CNCF | TensorFlow Developer Certificate - Google
LFCS - Linux Foundation | NVIDIA DLI: Deep Learning Fundamentals, GenAI with Diffusion Models

PROJECTS

- **Lexel Legal Chatbot (LegalCraft Solutions):** Built chatbot for lawyers to query case documents; features summarization, timeline generation, and entity extraction. Deployed on Azure OpenAI and Azure Cognitive Search
- **InSightful:** RAG-enabled ReAct agent for community Q&A with custom retriever, Stack Overflow API, and Tavily search
- **MS&T LLM Chatbot:** Student-centric chatbot using Streamlit, LangChain, and LlamaCpp for university info retrieval
- **NYT Headline Generator:** Fine-tuned BLIP2 model on NYT dataset to generate news-style headlines from images

LEADERSHIP & AWARDS

- **Founder & Chair, ACM AI Special Interest Group:** Led weekly AI workshops; organized Mega Miner AI competition (25+ teams)
- **Founder, TensorFlow User Group (TFUG) Rolla:** Established and organized local TensorFlow community chapter
- **Awards:** ML Fundamentals Scholarship (Udacity 2023), AI & ML Scholarship (Udacity 2022), Best Beginner's Hack (PickHacks 2023)