

Vinay Velpula

Aspiring ML Engineer | Specialized in Deep Learning • TensorFlow • FastAPI • AWS Cloud • CI/CD

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PROJECTS

Converse – AI Chatbot for Early Childhood Cognitive Development

June 02 - June 30

- Developed an AI-powered chatbot to address the gap in accessible digital learning tools for early childhood education.
- Engineered a FastAPI backend integrated with Gemini API for real-time conversational response generation.
- Created a responsive and accessible user interface using HTML, CSS, and JavaScript.
- Deployed on an AWS virtual machine with CI/CD pipelines configured using GitHub Actions.

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SKILLS

Machine Learning & AI: Supervised & Unsupervised Learning, Deep Learning, Model Optimization, Feature Engineering, NLP, Fine-tuning

Programming: Python, C++, Java, SQL

Frameworks & Libraries: TensorFlow, PyTorch, Scikit-Learn, OpenCV, NumPy, Pandas

Backend & API Development: FastAPI, Django

MLOps & Deployment: Docker, GitHub Actions, CI/CD

Cloud & Databases: AWS, Azure

Tools & DevOps: Git, Linux

EDUCATION

CMR Institute of Technology

Bachelor of technology (CSM) - 7.61

November 2022 - April 2026

CERTIFICATE

Generative AI Fundamentals - Google Cloud

Deep Learning Specialization - DeepLearning.AI [↗](#)

Machine Learning in production, DeepLearning.AI [↗](#)