KRISHNA SRINIVAS MADHIRA

AI Engineer | Machine Learning Specialist
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PROFESSIONAL SUMMARY

Recent Computer Science Engineering student specializing in Artificial Intelligence with practical experience in Machine Learning, Natural Language Processing, and Cloud Computing. Demonstrated expertise through internships at IBM SkillsBuild and CODTECH IT Solutions. Proficient in Python, TensorFlow, and cloud platforms with hands-on project experience in AI model development and deployment.

EDUCATION

Bachelor of Technology - Computer Science Engineering (AI)   2023 - 2027
GITAM (Deemed To Be University) | Visakhapatnam, India
Expected Graduation: June 2027

Intermediate (MPC) - Mathematics, Physics, Chemistry   2021 - 2023
Sri Chaitanya College of Education

EXPERIENCE

GitHub AIML Member   Aug 2025 - Present
GitHub Community - GITAM University | Visakhapatnam, India
- Actively contribute to open-source AI/ML projects and coding discussions
- Collaborate on innovative solutions to enhance team performance and project outcomes

AI & Cloud Intern   Jun 2025 - Jul 2025
Edunet Foundation (IBM SkillsBuild Program) | Remote
- Completed 4-week virtual internship focusing on AI and cloud computing technologies
- Developed small-scale projects integrating AI models with cloud deployment pipelines
- Gained practical exposure to IBM Watson, Object Storage, and AI-based automation tools

Machine Learning Intern   May 2025 - Jun 2025
CODTECH IT Solutions | Remote
- Built and trained ML models focusing on sentiment analysis using NLP techniques
- Applied Python, Pandas, NumPy, and Scikit-learn for data preprocessing and model evaluation
- Collaborated using GitHub for version control and strengthened ML pipeline understanding

TECHNICAL SKILLS

Programming Languages	AI/ML Technologies	Cloud Platforms	Tools & Frameworks
Python, Java, JavaScript, C++, SQL	Machine Learning, NLP, TensorFlow, Scikit-learn, Pandas, NumPy	Google Cloud Platform, IBM Cloud, IBM Watson	Git, GitHub, Looker Studio, Front-end Development

KEY PROJECTS

FLOATCHAT - RAG Text-to-SQL Platform
TypeScript, React, FastAPI, PostgreSQL | Smart India Hackathon 2025
- Developed RAG-based conversational interface for querying ARGO ocean datasets with natural language
- Built FastAPI backend with PostgreSQL integration and React frontend with real-time chat
- Implemented interactive maps and Plotly visualizations for oceanographic data analysis

LearnMate - AI Educational Chatbot
JavaScript, Node.js, IBM Watsonx.ai | Deployed on Vercel
- Created AI tutor using IBM Watsonx.ai with Granite 3.3 8B and Llama 3 models
- Implemented real-time streaming responses with Express.js backend and IAM authentication
- Designed modern gradient UI with responsive design principles

Sentinel - Satellite Image Classifier
Python, TensorFlow, Streamlit | ML Classification System
- Built land use classification system with 5 ML models (Random Forest, SVM, Gradient Boosting)
- Applied PCA for dimensionality reduction on 10 land use categories with satellite imagery
- Deployed interactive Streamlit web app with dark/light mode and real-time predictions

JARVIS - AI Voice Assistant
Python, Google Gemini AI, Speech Recognition
- Developed voice-activated assistant powered by Google Gemini AI for conversational interactions
- Integrated speech recognition and text-to-speech for hands-free application control
- Implemented command execution system for opening applications and responding to queries

ACHIEVEMENTS & CERTIFICATIONS

- **Google Cloud Arcade Cohort 1 (2025):** Successfully completed cloud-based challenges and earned skill badges
- **Hackathons & Coding Events:** Active participant applying AI/ML skills to problem-solving under pressure
- **Certifications:** Looker Studio (Google), Front-end Development (Meta), Git & GitHub (Google), Prompt Engineering (Vanderbilt), Generative AI (Google Cloud)