

Vedant Pardeshi

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AI Engineer specializing in autonomous agents, decision intelligence systems, and applied ML. Built PhiCraft (90% task success) and RadiantAI clinical assistant with adaptive inference logic.

Projects

PhiCraft - Autonomous Minecraft Agent

- Achieved 90% task success across 50+ autonomous multi-step Minecraft objectives
- Built an LLM-driven agent capable of mining, crafting, navigation, and planning
- Designed recursive task planner supporting 4–8 level reasoning chains
- Implemented dynamic error recovery and decision re-routing logic
- Enabled 12+ real-world task pipelines including resource gathering → processing → building
- Tech: Python, LangChain, Mineflayer, Node.js

RadiantAI - AI Clinical Assistant for Radiology

- Trained EfficientNetB0 classifier (AUC ~0.78, Recall ~97%) optimized for high-sensitivity detection
- Built MCP-driven chest X-ray screening system with adaptive decision routing
- Designed confidence-aware pipeline triggering human review for uncertain cases
- Integrated Grad-CAM explainability for interpretable clinical predictions
- Generated structured clinical guidance instead of raw probability outputs
- Tech: Python, TensorFlow, OpenCV, Streamlit

Portfolio

PhiCraft (Github):

github.com/Vedant-Git-dev/PhiCraft

RadiantAI (GitHub):

github.com/Vedant-Git-dev/RadiantAI

Educational Background

Diploma in AI/ML

Rajarambapu Institute of Technology
2024-2027

Relevant Coursework: Machine Learning, Deep Learning, Neural Networks, Data Structures, Statistics, Probability

Skills

Core Languages

- Python

ML & DL

- Regression
- SVM
- CNN
- RNN
- Transformers

Frameworks

- TensorFlow
- PyTorch,
- scikit-learn

Data & Visualization

- NumPy
- Pandas
- Matplotlib
- Seaborn

AI Systems

- LangChain
- RAG pipelines
- Embeddings

Deployment

- Streamlit
- FastAPI
- Linux CLI
- REST APIs

Additional Information

- Led 4+ internal AI/ML projects involving model design, evaluation, and deployment.
- Mentored 15+ students in ML/DL concepts and practical implementation.
- Resulted in 3 deployable prototypes and 10+ students completing hands-on ML projects.