Vedant Pardeshi

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AI/ML student specialising in LLM agents, autonomous tool-use, and multi-step planning. Experienced in deep learning, model evaluation, and building end-to-end ML systems. Creator of PhiCraft, an LLM-driven autonomous Minecraft agent with 90%+ task success.

Projects

PhiCraft — Autonomous Minecraft Agent

- Built an LLM-powered autonomous agent capable of mining, crafting, smelting, farming, and navigation.
- Designed a recursive task-planning system enabling multi-step autonomous execution (ReAct-style reasoning).
- Supports 12+ multi-step pipelines with dynamic error recovery and planning depth of 4–8 levels.
- Achieved 90%+ task success rate in multi-step autonomous routines such as crafting -> resource gathering -> smelting -> building.
- Tech: Python, Node.js, Mineflayer, LangChain-style agent logic

RAG Configuration Optimizer

- Built a two-stage ML system to automatically select optimal RAG configurations per question instead of using static pipelines.
- Implemented a LightGBM Proposer for high-recall candidate selection and a LambdaRank ranker for per-question configuration ranking.
- Framed configuration selection as a learning-to-rank problem using reward-based relevance and group-aware training.
- Achieved near-zero median regret, consistently selecting optimal or near-optimal configurations across queries.

Portfolio

PhiCraft (Github):

github.com/Vedant-Git-dev/PhiCraft

RAG Configuration Optimizer (GitHub):

github.com/Vedant-Git-dev/RAG-Optimizer

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
- Node.js

ML & DL

- Regression, SVM
- CNN, RNN
- Transformers
- NLP
- Computer Vision

Frameworks

- TensorFlow / Keras
- PyTorch,
- scikit-learn

Data & Visualization

- NumPy
- Pandas
- Matplotlib, Seaborn

LLM Systems

- RAG
- LangChain
- Embedding

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.