

Kunal Mohare

 [linkedin.com/in/kunal-mohare](https://www.linkedin.com/in/kunal-mohare)  github.com/Mohare786-Kunal

 kunaldmohare@gmail.com  [+91 9156495035](tel:+919156495035)

EDUCATION

RAMDEOBABA UNIVERSITY

B.Tech in Computer Science (Exp. 2026) - GPA: 7.5/10

Nagpur, Maharashtra

2022 – Present

BHAVAN'S BHAGWANDAS PUROHIT VIDYA MANDIR

CBSE 10th Board – 92.8%

Nagpur, Maharashtra

2006 - 2022

EXPERIENCE

BINGECLIP AI – AI/ML Engineer

January **2025** – Present

Bangalore, Karnataka

- Architected scalable, production-ready ML systems on **GCP** integrating open-source models (e.g., Hugging Face Transformers, BERT), reducing processing time by **25%** via optimized data pipelines.
- Led a team of **3** interns in developing Multi-Agent AI solutions using **CrewAI**, **LangGraph** and **TensorFlow**, processing over **1,000** documents monthly with **95%** accuracy through advanced multi-threaded processing.

SENSLYZE – AI Developer

September – November **2024**

Nagpur, Maharashtra

- Launched an MVP for YES BANK with **RAG** pipelines using **LangChain** and **FAISS**, enhancing workflow efficiency by **40%** with semantic search and real-time retrieval, ensured **99.9% reliability** with robust error handling and **AWS**-based load balancing, and implemented **guardrails** with rule-based filters to prevent hallucinations and maintain data integrity.
- Deployed Agentic AI systems with **LangGraph**, improving processing efficiency by **30%** via dynamic coordination, reduced downtime by **95%** with **Redis** caching and failover strategies, and optimized reliability with **CloudWatch** monitoring and self-healing mechanisms, handling 10,000+ concurrent requests seamlessly.

PROJECTS

Multi-Agent AI System — DEMO : [\[YouTube\]](#)

[GitHub](#)

- Engineered a Multi-Agent AI platform integrating **Google Workspace**, **GitHub**, and **LinkedIn APIs** with **Redis** caching, achieving real-time data synchronization.
- Automated OS-level tasks using **AppleScripts** and **PowerShell**, boosting productivity by **35%** with custom task schedulers.

Multimodal - Retrieval Augmented Generation (RAG) System

[GitHub](#)

- Built a multimodal **RAG** system with implementation of the **Model Context Protocol (MCP)** using **CLINE plugins** to manage and optimize context-aware retrieval, ensuring efficient handling of large-scale contexts by structuring the thesis of retrieved data into hierarchical embeddings; this enabled dynamic context pruning, improved relevance scoring by **20%**, and supported scalability for datasets exceeding **1 lakh entries**.
- Deployed a **FastAPI** backend with **Redis** caching and **LangChain**, scaling LLM (**OpenAI**) workflows with dynamic batching for efficient multimodal data processing.

Ads CTR Optimization

[GitHub](#)

- Designed **Reinforcement Learning** algorithms - **Deep Q-Learning**, **Upper Confidence Bound (UCB)**, and **Thompson Sampling** to optimize ad placements, increasing **CTR** by **25%** on a **50,000**-user dataset.
- Analyzed large-scale data patterns with **Pandas** and **TensorFlow** for dynamic, real-time ad adjustments.

Road Object Detection

[GitHub](#)

- Designed a **CNN**-based system with **OpenCV** and **YOLOv5** for real-time detection, achieving **90%** accuracy on a **1,000**-frame dataset.
- Optimized for low-latency video analysis with multi-threading, targeting autonomous vehicle applications, reduced inference time by **40%** using GPU acceleration with **CUDA**, and implemented a batch processing pipeline to handle varying frame rates, enhancing scalability for deployment in resource-constrained edge devices.

- Engineered a cloud-based SaaS platform that converts YouTube videos into concise summaries, detailed transcripts, and trains a custom AI assistant tailored to video content, leveraging **AWS S3** for storage, **FastAPI** for API deployment, **Open AI API**, **Anthropic Claude**, and **Gemini LLM** for NLP, and **PyTorch** for model training.
- Achieved a **40%** user retention rate through iterative feedback and feature enhancements by college students, with an average processing time reduction of **30%** using optimized batch processing, and integrated **Docker** for containerization and **Redis** for caching, ensuring scalability and reliability for high-traffic scenarios.

ACHIEVEMENTS

- Secured **First Place** in Groclake Agentic AI Hackathon, leading the team with an innovative AI solution.
- Secured **top 5 Finalists** position in Eyantra IITB Competition, showcasing advanced DL/ML and robotics integration.
- Successfully **Integrated the Agentic AI System for Google Workspace** into my university's ecosystem, enhancing productivity for teachers across departments.
- Solved **250+ LeetCode** problems, demonstrating strong problem-solving and algorithmic expertise.
- Published technical blogs on [Hashnode](#) with **1K+ views**, establishing a presence in the tech community.

SKILLS

- **Programming:** Python, Java
- **AI/ML:** LangChain, Hugging Face, TensorFlow, PyTorch, OpenCV, Reinforcement Learning, Scikit-learn
- **Development:** FastAPI, Node.js, Express.js, Docker, Kubernetes, GitHub Actions
- **Databases & Tools:** Git, AWS, GCP, ChromaDB, FAISS, MongoDB, PostgreSQL, Redis
- **Concepts:** System Design, Algorithms, Data Structures, Distributed Systems, Cloud Computing
- **Soft Skills:** Leadership, Adaptability, Teamwork, Problem-Solving, Communication, Time Management