

Krish Kumar

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SKILLS

Languages:	C/C++, Python, SQL , Javascript
Databases:	MySQL, PL/SQL, MongoDB
Tools/Platforms:	PyCharm, VSCode, Git, GitHub
Core Concepts :	Data Structures & Algorithms, Operating System, OOPS, DBMS, Computer Networks
Soft Skills :	Leadership, Team Player, Adaptability

PROJECTS

OfflineComputerAiAgent | [github](#)

Aug 2026

- Built an AI-powered computer-use agent capable of interpreting screen content and autonomously executing GUI actions using vision-language models.
- Implemented automated interaction workflows including opening Chrome, searching YouTube, clicking UI elements, and navigating applications based on visual context.
- Developed robust action parsing and execution logic with JSON-based tool calls, enabling the agent to translate model decisions into real-time mouse and keyboard operations.

Tech: Python, Ollama, LLM, Pyautogui, OOPS

LazyMIND OfflineRAG-BasedStudyAssistant | [github](#)

Aug 2026

- Built a fully offline RAG pipeline (PDF → chunks → embeddings → ChromaDB → local LLM via Ollama) that answers questions grounded in user-uploaded study material, with no cloud dependency.
- Diagnosed and fixed a "lost in the middle" retrieval bug by tuning context size, a real debugging finding, not just a working demo.
- Packaged the full app into a standalone Windows desktop .exe using Streamlit, PyWebView, PyInstaller, shipping a distributable product, not just a script.

Tech: Python, LLMs, ChromaDB, Streamlit

DataManager | [github](#)

May 2026

- Developed and published an open-source Python framework for data engineering and analytics workflows, surpassing 1,000+ downloads on PyPI.
- Implemented CSV, JSON, and in-memory storage backends through a unified API, reducing boilerplate needed to switch between storage formats.
- Packaged and diCreated automated tests using PyTest to improve code reliability and maintainability.tributed the project on PyPI using setuptools and modern packaging practices.

Tech: Python, Pandas, OOPS

MiniNeuralNetworkFramework | [github](#)

April 2026

- Built a neural network framework from scratch without TensorFlow or PyTorch, validated on synthetic datasets to confirm correctness of core algorithms.
- Implemented forward propagation, backpropagation, gradient descent, and modular layer abstractions.
- Builds neural networks layer-by-layer, provides a clean training API similar to real frameworks

Tech: Python, Numpy, ML Maths,Deep Learning

CERTIFICATES

- PyTorch Bootcamp – OpenCV University
- Data Engineering Foundations
- SQL (Intermediate)

ACHIEVEMENTS

- Solved 300+ DSA questions across different platforms like LeetCode, GeeksforGeeks etc.
- Scored 0.14514 on Kaggle House Price competition.

EDUCATION

Lovely Professional University

Bachelor of Technology Computer Science and Engineering Major in AI and ML **CGPA: 9.47**

Phagwara, Punjab

Since Aug 2025

PM SHREE Kendriya Vidyalaya AMC

Percentage: 84

Kendriya Vidyalaya Dimapur

Percentage: 84

Lucknow, Uttar Pradesh

Apr 2024 - Mar 2025

Dimapur, Nagaland

Apr 2022 - Mar 2023