

KRISH SACHDEV

Data Science · Machine Learning · Applied AI

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EDUCATION

MPSTME, NMIMS University — Mumbai B.Tech Integrated, Data Science — CGPA 3.37 / 4	2024 – 2027
MPSTME, NMIMS University — Mumbai Diploma in Computer Science — CGPA 3.22 / 4	2021 – 2024
Vibgyor High School — Mumbai ICSE — 90.17%	2021

EXPERIENCE

Maexadata Solutions LLP <i>AI/ML Intern</i> - Built an AI-powered consultant-to-Job-Description matching system, automating a process that was previously manual. - Developed a Python embedding pipeline composing consultant profiles from a MySQL database, enriched with parsed resume data from an Elasticsearch API, embedded as 768-dimensional vectors using Nomic Embed Text on Ollama and stored in pgvector with HNSW indexing. - Implemented hybrid retrieval combining semantic vector similarity with exact keyword matching, merged on a weighted score so profiles matching both rank highest. - Engineered LLM agent prompts in LibreChat to parse Job Descriptions, autonomously query the database, and score consultants 1–5 on fit with structured JSON output. - Exposed the system through a Flask REST API and deployed the full stack on AWS EC2 using Docker Compose. - Reduced consultant matching from hours of manual effort to minutes across 6,000+ profiles.	May 2026 – July 2026
IndusGuru Network Partners LLP <i>Data Analytics and AI Intern</i> - Contributed to an LLM-powered FAQ chatbot over the firm’s internal knowledge base, using LangChain and Elasticsearch. - Implemented prompt-driven retrieval so responses were grounded in retrieved internal content, with structured, consistent output. - Built LLM-based query workflows connecting the chatbot to its underlying knowledge sources.	June 2025 – July 2025

PROJECTS

Autonomous Financial Research Agent — Capstone Project Developing an autonomous AI agent for financial research using LLMs and retrieval-based workflows, automating the research, analysis, and report-generation cycle end to end.	Ongoing
Interview Body Language Detector AI-powered interview body language analysis system that detects non-verbal communication and generates automated performance reports. Built with MediaPipe and OpenCV for pose and gesture detection, delivered through a Streamlit web interface so non-technical users get actionable feedback. github.com/KrishSachdev/interview-body-language-detector	2026
Automated Promo Video Generator using CNN End-to-end video summarization pipeline using EfficientNetB0 for visual feature extraction, OpenCV-based frame preprocessing, and audio-driven peak scoring to identify and assemble high-impact video segments automatically. Deployed as a live Streamlit app — upload a video and generate a promo in the browser. promo-video-generator.streamlit.app github.com/KrishSachdev/promo-video-generator	2025
Ride-Sharing Simulator Desktop ride-sharing simulator built on real OpenStreetMap road networks, implementing custom data structures, route optimization, ride matching and caching algorithms from scratch, with side-by-side visualization comparing their performance. github.com/KrishSachdev/ride-sharing-app	2026

PUBLICATION

Enhanced LSTM Models for Short-Horizon Forecasting

2025

Lex Localis — Journal of Local Self-Government

Developed and applied enhanced LSTM models for short-horizon time series forecasting across financial and public governance datasets, improving prediction accuracy and demonstrating cross-domain adaptability.

CORE SKILLS

Programming Languages: Python, C++, SQL, JavaScript, HTML, CSS

AI / ML: Machine Learning, NLP, LLMs, LLM Agents, Prompt Engineering, Vector Embeddings, Semantic & Hybrid Search, Predictive Modeling, Regression, Computer Vision, Data Structures

Libraries & Frameworks: TensorFlow, NumPy, OpenCV, MediaPipe, LangChain, Ollama, Flask, Streamlit, Jupyter

Databases & Tools: PostgreSQL (pgvector), MySQL, Elasticsearch, Tableau, SAS Viya, Git, Excel, PowerPoint

Infrastructure: AWS EC2, Docker, Docker Compose, REST APIs

Soft Skills: Problem Solving, Analytical Thinking, Communication, Teamwork, Adaptability, Time Management

ACHIEVEMENTS & POSITIONS OF RESPONSIBILITY

- Head of Photography, Findrome (2025–26) — led event coverage and visual branding.
- Photography Lead, Microsoft Students Club (2025–26) — led visual coverage and creative direction for events.
- Published photographer — photograph featured in myliveablecity Magazine.
- Taekwondo Black Belt — years of competitive training and sustained discipline.