

KRISHIL AGRAWAL

AI/ML Engineer & Agentic Systems Developer

✉ krishilagrawal026@gmail.com 📞 +918320902499 🔗 Portfolio 🌐 GITHUB 🌐 LINKEDIN

SUMMARY

AI/ML Engineer & Agentic Systems Developer with hands-on experience building multi-agent architectures, RAG pipelines, and end-to-end ML systems. Proficient in LangChain, LangGraph, CrewAI, and modern MLOps practices. Passionate about building intelligent systems that solve real-world problems.

EXPERIENCE

AI Research Intern — Deep Learning & Medical Imaging, 05/2025 – 06/2025
CHARUSAT University, Gujarat

- Selected for a university-level research internship focused on building an AI-based system for affordable eye disease screening in rural India using retinal fundus image analysis
- Designed and trained a deep learning classification model using MobileNetV3Large with two-stage transfer learning — identifying 4 retinal conditions (CNV, DME, Drusen, Normal) with mixed precision training.
- Engineered a comprehensive evaluation framework producing confusion matrices, ROC/AUC curves, per-class F1 scores, and training visualizations

EDUCATION

Current CGPA: 9.27, *Computer Science & Engineering | Charusat University, Gujarat* 2023 – 2026

Science Percentile: 98.02, *Class XII | Shannen School, Gujarat* 2023 – 2023

Percentile: 98.35, *Class X | Shannen School, Gujarat* 2021 – 2021

SKILLS

AI and Agentic Systems

LangChain, LangGraph, CrewAI, RAG Pipelines, Vector Databases, Multi-Agent Architectures

ML and DL

Supervised & Unsupervised Learning, Neural Networks, Feature Engineering, Model Evaluation, Hyperparameter Tuning, MLOps

Frameworks and Tools

Python, scikit-learn, TensorFlow, HuggingFace, Docker, Git, Postman, Langsmith, n8n, Docker

Programming

Python, C++, SQL (PostgreSQL)

Backend and Database

Next.js, Supabase, PostgreSQL, MongoDB, Prisma ORM, REST APIs

Core CS

Data Structures & Algorithms, OOPS, DBMS, System Design

CERTIFICATES AND COURSES

Agent Skills with Anthropic

- Prompt engineering, tool use, and Claude-based agent development

Gemini CLI: Code & Create with Open-Source Agents

- Building agentic pipelines with open-source tooling

Design, Develop, and Deploy Multi-Agent Systems with CrewAI

- End-to-end multi-agent architecture and deployment

AWS Academy Cloud Developing Certifications, *AWS Academy*

ACADEMIC AND EXTRACURRICULAR ACHIEVEMENTS

Semi-finalist in 4 hackathons

Demonstrating strong problem-solving and rapid prototyping skills

Consistently ranked among the top academic performers at CHARUSAT University

Selected for a research internship at CHARUSAT

PROJECTS

AI-Canvas — Social Media Automation SaaS Platform

- Built a production-grade AI SaaS platform that automates end-to-end LinkedIn content workflows — from AI-assisted post generation and human-in-the-loop approval to automated scheduling and publishing
- Designed a multi-layer AI orchestration pipeline using LangChain and LangGraph for intent-aware content generation from user prompts, goals, and profile context
- Implemented real-time event streaming via Socket.IO for live publish status updates, system logs, and workflow notifications
- Integrated LangSmith for end-to-end LLM observability, evaluation, and trace monitoring

TalentoAI — AI-Powered Interview Preparation Platform

- Engineered an end-to-end AI-driven platform for interview preparation, integrating assessment systems, resume intelligence, and personalized feedback pipelines
- Designed structured LLM workflows to evaluate candidate responses and generate actionable insights across technical, aptitude, and communication domains
- Built a resume analysis engine with ATS scoring and optimization using AI-driven parsing and evaluation
- Developed real-time analytics dashboards to track user performance, skill progression, and assessment history

ICC T20 World Cup 2026 — AI Match Outcome Prediction System

- Developed an end-to-end machine learning pipeline to predict match outcomes using historical & real-time cricket data
- Built robust data engineering workflows for ingestion, preprocessing, and feature generation from multiple data sources
- Designed predictive models for win probability estimation with continuous evaluation and performance monitoring
- Implemented MLOps pipeline including experiment tracking, model versioning, and automated retraining

References

Parth Goel, *AI and ML Assistant Professor*, Charusat University

parthgoel.ce@charusat.ac.in, 9662123479

Hardik Parmar, *Assistant Professor*, Charusat University

hardikparmar.dcs@charusat.ac.in, 8128240572