

KESHAV MITTAL

+91-7078375917 | work.keshavmittal9@gmail.com | linkedin.com/in/keshavmittal09 | github.com/keshavmittal09

SUMMARY

B.Tech Computer Science student with hands-on experience building real-world AI and ML systems, including transformer-based text classification models, explainable AI diagnostic platforms, and AI agent pipelines. Seeking opportunities to contribute to production-grade AI systems and live engineering projects.

TECHNICAL SKILLS

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|-------------------------------|--|
| Languages: | Python, C++, Java, JavaScript, MySQL, PostgreSQL |
| Frameworks & APIs: | FastAPI, React, Next.js, Gradio, Streamlit, n8n (Workflow Automation) |
| ML / AI: | Scikit-learn, PyTorch, BERT / HuggingFace Transformers, ResNet50, LLMs, SHAP |
| Data & Viz: | NumPy, Pandas, Matplotlib, Seaborn, Recharts, Power BI |
| Developer Tools: | Git, GitHub, VS Code, HuggingFace Spaces, Docker, Chrome DevTools |
| CS Fundamentals: | Data Structures & Algorithms (DSA), EDA, Descriptive Statistics, Data Cleaning |

EDUCATION

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| GLA University, Mathura B.Tech (Hons.), Computer Science CGPA: 7.6 | 2024 – 2028 |
| Kanha Makhan Public School, Vrindavan Senior Secondary (PCM) — 84% Secondary — 89% | 2022 – 2024 |

PROJECTS

MedAI Diagnostics — Explainable AI Medical Platform Next.js 15 · FastAPI · SHAP · Groq API · scikit-learn

Project Link: github.com/keshavmittal09/Semester-Project | Live: medai-omega.vercel.app

- Built a full-stack explainable AI medical diagnosis system with a Random Forest classifier (200 trees, 8 disease classes) and SHAP-based visual explanations across 7 interactive XAI tabs.
- Integrated Groq Llama 3.3 70B for natural language clinical narrative generation and a follow-up chatbot; deployed with counterfactual analysis, feature interaction heatmaps, and a multi-factor Trust Score.
- Designed a Next.js 15 + FastAPI architecture with PDF report generation, session-based diagnosis history, and dark/light mode support.

Veridex — Real-Time AI Hallucination Verification Engine Next.js 14 · FastAPI · Gemini API · Chrome Extension · Vanilla JS

Project Link: github.com/keshavmittal09/Veridex-Truth-in-Every-Token | Live: veridex-one.vercel.app

- Built a Chrome extension that intercepts ChatGPT's SSE streams in real-time, decomposes AI-generated text into atomic claims, and triangulates them against Wikipedia, Wikidata, and Google Fact Check API.
- Created a Trust Score engine with hallucination heatmap visualization — verified truths highlighted in green, flagged hallucinations in red — injected as an unobtrusive UI overlay directly into ChatGPT's DOM.
- Designed a provider-agnostic backend (Google Gemini / Groq) with a Next.js web dashboard for historical analysis and claim audit trails.

AdSmith — AI Ad Generation Agent Telegram API · n8n · Vision AI · Generative Video Models

Project Link: github.com/keshavmittal09

- Architected a 7-stage modular AI pipeline: Telegram input → n8n automation → Vision AI analysis → Ad Strategy Agent → Scene Blueprint Agent → Prompt Engineering → Video Generation.
- Automated conversion of product images into short-form video ad concepts, cutting manual creative effort by an estimated 70% per ad campaign.
- Built structured agent logic for ad strategy, scene generation, and script structuring using LLM orchestration.

HireXAI — AI-Powered Hiring Copilot LLMs · Python · Streamlit

Project Link: github.com/keshavmittal09/HireXAI | Live: hire-xai-sleek.vercel.app

- Built a hackathon prototype using GPT-based LLMs to automate resume screening — parsed and ranked 20+ candidate profiles against job descriptions in under 3 seconds per resume.
- Implemented candidate scoring logic with configurable weightage for skills, experience, and education, reducing manual shortlisting time by ~60%.
- Deployed as a Streamlit app with a clean recruiter-facing UI validated by a live judging panel.

Medical X-Ray Image Classifier — AI Radiology Assistant ResNet50 · Google Gemini · Gradio · HuggingFace

Project Link: github.com/keshavmittal09 | Live: huggingface.co/spaces/qwert01/Medical-X-Ray-Image-Classifier

- Built a dual-AI system combining ResNet50 (PyTorch) for Pneumonia vs. Normal chest X-ray classification with Google Gemini for image validation, patient-friendly report summarization, and an interactive medical chatbot.
- Deployed live on Hugging Face Spaces with a Gradio web UI; end users can upload X-rays and receive AI-generated diagnoses and follow-up Q&A in real time.
- Constructed a 5-stage inference pipeline: image upload → Gemini validation → ResNet50 prediction → Gemini summary generation → chatbot Q&A.

ReviewRadar — Fake Review Detection System BERT · Logistic Regression · FastAPI · React

Project Link: github.com/keshavmittal09/ReviewRadar | Live: reviewradar.vercel.app

- Built an end-to-end hybrid fake review classifier using BERT contextual embeddings + Logistic Regression + OpenAI GPT API, achieving 80% accuracy on a 50,000-review real-world dataset.

- Developed a FastAPI backend with sub-200ms inference latency and integrated a React frontend for real-time predictions.
- Created a model serialization and deployment pipeline using joblib, enabling scalable and reproducible production use.

ACHIEVEMENTS & EXTRACURRICULARS

AI NIRMAN — 36-Hour GenAI Startup Hackathon, GLA University

2026

AI Developer & Co-Founder (Team Project)

Mathura, India

- Built AdSmith, an AI-powered ad generation agent; shortlisted Top 20 out of 93+ teams and pitched to 6+ investors.

HackGenesis — Online Hackathon

2025

ML Developer (Team Project)

Remote

- Developed HireXAI, an NLP-powered hiring copilot that automated resume parsing and candidate-job matching to streamline the recruitment process; shortlisted for final evaluation.

CyberCub 5.0 — Amity University, Noida

2025

AI Developer (Team Project)

Noida, India

- Built PhishGuard, an explainable AI (XAI) system that detects spam/phishing emails and provides human-readable reasoning for each classification.

CURRENTLY LEARNING

LLM Fine-tuning · Retrieval-Augmented Generation (RAG) Pipelines · MLOps & Model Monitoring · Open-Source Contributions (HuggingFace Ecosystem)