

# AKASH KUMAR

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## Technical Skills

**Programming:** Python, SQL, R, Java, HTML, CSS

**Data Structures & Algorithms:** Problem-solving, Competitive Programming(1000+ DSA problem)

**Data Analysis:** Pandas, NumPy, Matplotlib, Seaborn, Power BI, Tableau, Excel

**Machine Learning:** scikit-learn, OpenCV, Model Evaluation

**Deep Learning:** ANN, CNN, RNN

**Web & Backend:** Flask, Streamlit, FastAPI, Django

**Databases:** MySQL, PostgreSQL

**GenAI & LLM:** LangChain, LangGraph, LangSmith, RAG, Embeddings, Vector DBs, Prompt Engineering

**Others:** Web Scraping, Selenium, APIs, Git, NLP

## Education

**Maharshi Dayanand University, Rohtak**

*June 2022 – June 2026*

B.Tech in Computer Science and Engineering (AIML) — CGPA: 8.07

**B.B.N. College, Gopalganj, BIHAR**

*2019 – 2021*

BSEB Class XII — 78.8%

## Projects

**Face Recognition Attendance System**

*Source Code*

- Real-time face recognition system using OpenCV for automated attendance.
- Integrated MySQL database for secure and reliable attendance logging.
- Designed clean and user-friendly interface for academic environments.

**WhatsApp Chat Analyzer**

*Source Code*

- Python-based analytics tool to extract insights from WhatsApp chats.
- Performed NLP preprocessing using pandas, regex and word frequency analysis.
- Built Streamlit dashboard with visualizations (WordCloud, timelines, user activity).

**Intelligent Enterprise Document Assistant (LLM + RAG)**

*Source Code*

- Built GenAI-based contract/policy analysis system using RAG + vector embeddings.
- Implemented LangChain pipelines for chunking, semantic search and clause extraction.
- Created LangGraph workflows for multi-step risk scoring and redline suggestions.
- Used LangSmith for evaluation, debugging and improving LLM reliability.

**Virtual Mouse Controller**

*Source Code*

- Gesture-based mouse controller using MediaPipe + OpenCV.
- Enabled cursor movement and system volume control through hand gestures.
- Achieved smooth and real-time gesture detection.

## Certifications

- Microsoft Fabric Analytics Engineer (DP-600) — Ignite & Fabric Data Days Challenge.
- 100 Days of Python — Udemy (Angela Yu).
- CampusX Data Science Mentorship Program.

## Awards & Achievements

- 4★ CodeChef, 4★ GFG , 450+ LeetCode Problems.
- 2nd Rank — GeekHub Hackathon (Face Recognition Project).
- 1st Rank — Carrom (Sportech Fest).