

ARYAN MISHRA

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SUMMARY

AI/ML Engineer with hands-on experience developing machine learning, NLP, and LLM applications using **Python, PyTorch, FastAPI, and SQL**. Experienced in building healthcare AI solutions, model deployment, and explainable machine learning using SHAP. Passionate about leveraging AI to solve healthcare challenges, supported by an academic foundation in Mathematics and Biology.

SKILLS

Programming Languages: Python, SQL

Machine Learning: Scikit-learn, XGBoost, PyTorch

LLMs & NLP: Hugging Face, LangChain

Backend: FastAPI

Databases: PostgreSQL, MongoDB

MLOps & Deployment: Docker, MLflow

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn

PROJECTS

HealthPredict AI — Explainable Healthcare Risk Prediction Platform | Jun 2025 – Dec 2025 | [GitHub](#)

- Developed an end-to-end healthcare risk prediction platform for Diabetes, Heart Disease, and Lung Cancer using XGBoost, achieving up to 89.5% accuracy.
- Built a production-ready FastAPI application integrating SHAP explainability, automated report generation, and REST APIs for real-time predictions.
- Implemented OCR-based medical document analysis with PDF processing and feature extraction to automate clinical data ingestion and improve prediction efficiency.

MedAgent AI — Multi-Agent Healthcare Intelligence Platform | Jan 2026 – Mar 2026 | [GitHub](#)

- Developed a multi-agent healthcare assistant that intelligently routes user queries between RAG pipelines and local LLMs to deliver accurate, context-aware responses.
- Built a scalable backend using FastAPI, PostgreSQL, JWT Authentication, Server-Sent Events (SSE), and Docker for secure, real-time AI interactions.
- Implemented document ingestion, semantic search, conversation memory, and streaming responses to enhance response quality and user experience.

Multilingual Aspect-Based Sentiment Analysis (ABSA) Platform | Feb 2026 – Jun 2026 | [GitHub](#)

- Developed a multilingual Aspect-Based Sentiment Analysis (ABSA) system for English, Hindi, and Hinglish using Transformer-based models, achieving 89% Macro-F1.
- Optimized model inference by 87.9% through ONNX Runtime INT8 quantization, enabling efficient real-time deployment with minimal accuracy loss.
- Built an end-to-end NLP pipeline with PyTorch, Hugging Face Transformers, FastAPI, PostgreSQL, Docker, MLflow, and HTMX for scalable training, deployment, and experiment tracking.

EDUCATION

Indore Institute of Science and Technology

B.Tech in Computer Science Engineering (Specialization in Data Science)

Expected Graduation: May 2027 | CGPA: 7.41/10

ACHIEVEMENTS

- Kaggle Datasets Master (Rank 84/10,598) | Kaggle Notebooks Expert (Peak Rank 489/60,266)
- Bronze Medal — Kaggle March Machine Learning Mania 2024

CERTIFICATION

- NVIDIA — Anomaly Detection Applications
- Google — Generative AI
- Cisco — Data Analytics Essentials