

LAKSHYA KAUSHIK

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SUMMARY

AI & ML Engineer skilled in designing, training, and deploying production-grade models and LLM-driven applications. Strong foundations in Python (OOP), ML frameworks (TensorFlow, PyTorch, Scikit-learn, XGBoost), and scalable API development (FastAPI/Flask). Hands-on with RAG pipelines, vector databases (FAISS, Pinecone), and cloud-native deployments using Docker/Kubernetes on GCP/Azure. Experienced in MLOps (CI/CD, versioning, monitoring) and data processing with SQL, Pandas, and Spark.

PROFESSIONAL EXPERIENCE

Geeky Bee AI Pvt Ltd

Pune, India

AI Developer

Jan 2025 – Present

- Automated Playwright + Scrapy workflows to streamline webform tasks, reducing manual effort by 70%.
- Built and deployed sentiment-analysis FastAPI service (Dockerized) handling 10K+ reviews/month at 85% accuracy.
- Optimized inference pipelines with Hugging Face Transformers; integrated BERT and GPT-2 variants.
- Developed RAG-based QA system combining FAISS vector DB with T5 and GPT for retrieval + generation.
- Enhanced OCR + LLM preprocessing for Arabic using TensorFlow & OpenCV; boosted extraction accuracy from 78% to 92%.
- Deployed YOLOv12 on NVIDIA Jetson with PyTorch; achieved real-time object detection at 25 FPS.
- Collaborated on MLOps pipelines with Git, CI/CD, and experiment tracking.

Symbiosis Center for Applied AI

Pune, India

Research Intern

Jul 2024 – Dec 2024

- Led multimodal fusion of retinal images + clinical data (5K+ samples), increasing AUC by 8%.
- Benchmarked early, late, and hybrid fusion; recommended hybrid for deployment.
- Improved model training throughput by 40% using optimized PyTorch data pipelines.

Anyology Speciality Services Pvt Ltd

Remote

IT Consultant Intern

Aug 2023 – Nov 2023

- Led team to build GCP-hosted WordPress infra, saving \$1000+/year in hosting costs.
- Researched cloud migration strategies and contributed to IT roadmap.

EDUCATION

Symbiosis Institute of Technology

Pune, India

B.Tech in Artificial Intelligence and Machine Learning

Sep 2021 – Jun 2025

Technische Hochschule Ingolstadt

Ingolstadt, Germany

Exchange Semester

Mar 2024 – Sep 2024

- Collaborated with professors on NLP, recommender systems, and computer vision projects.
- Worked with Prolog and advanced AI tools uncommon in Indian curricula.

TECHNICAL SKILLS

- Languages: Python, SQL
- Frameworks: TensorFlow, PyTorch, Scikit-learn, XGBoost, FastAPI, Flask, Streamlit, React
- LLM/AI: Transformers, GPT, BERT, T5, RAG, Prompt Engineering
- Vector DBs: FAISS
- MLOps/Tools: Git, Docker, Kubernetes, CI/CD, MLflow
- Data: Pandas, OpenCV, OCR, NLP, SQL
- Cloud: GCP, Azure, AWS

PROJECTS

- **Review Sentiment Analysis** – Deployed a BERT-based FastAPI microservice (Docker) for sentiment classification. Integrated CI/CD with GitHub Actions; achieved 85% accuracy.
- **Book Shopping Website Scraper** – Built Scrapy pipeline integrated with Pandas + SQL for dataset creation. Used in LLM pre-training workflows.
- **AgNOR Detection** – Designed CNNs with PyTorch + TensorFlow for medical imaging. Improved diagnostic accuracy using OpenCV preprocessing.
- **IntelliShots - Short News App** – Developed T5/GPT-powered news summarizer with retrieval-augmented features. Built React.js + Node.js frontend.
- **RAG-based QA System (Internal)** – Engineered document QA pipeline using FAISS + T5 + GPT-2. Implemented embeddings search and generative answering.