

Mohit Kundu

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Education

Master of Science, Computer Science <i>Indiana University</i>	08/2022 – 05/2024 Bloomington, Indiana
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Skills

Programming Languages Python, R, JavaScript, C++, Go, SQL	Frameworks ML: TensorFlow, PyTorch, Scikit-learn, Langchain Data Science: Numpy, Pandas, Matplotlib, Spark Deployment: GCP, Docker, Kubernetes, Flask, React
Certifications Google Associate Cloud Engineer	

Professional Experience

Machine Learning Engineer, Kanini <ul style="list-style-type: none">Automated cloud infrastructure provisioning with LLM-powered agents (LangGraph & Gemini), reducing setup time by 70%.Designed and fine-tuned AI transcription pipelines on medical terminology, cutting documentation effort by 40% and boosting accuracy by 30%.Developed HIPAA-compliant chat platforms on GCP (Node.js, Pub/Sub, Firestore) with ML/NLP triage, reducing response time by 20%.Streamlined deployments with GitLab CI/CD & Terraform, achieving 99.9% uptime and faster release cycles.	05/2025 – Present Nashville (Remote)
Software Developer - ML Frameworks, AfterQuery Experts <ul style="list-style-type: none">Contributed to TensorFlow, PyTorch, Pandas by resolving 25+ critical bugs and adding 10+ features.Wrote 75+ CI/CD-integrated test cases ensuring reliable open-source deployments.	03/2025 – 05/2025 New York, NY
Data Scientist, Project 990 <ul style="list-style-type: none">Designed ETL pipelines (SQL, Pandas, PySpark) to process 2M+ rows, reducing runtime 30%.Fine-tuned Llama & Mistral 7B with LoRA/QLoRA boosting classification accuracy to 92%.Uncovered key drivers for campaign optimization through causal inference and multicollinearity testing.	08/2024 – 05/2025 New York, NY
Machine Learning Researcher, Kelley School of Business <ul style="list-style-type: none">Boosted next-item prediction accuracy by 37% by developing a transformer-based sequential recommendation system.Identified key factors influencing marketing ROI through clustering, factor analysis, and mixed market modeling, generating actionable insights.	01/2024 – 04/2024 Bloomington, IN
Machine Learning Engineer, Hearthealth Technologies <ul style="list-style-type: none">Developed neural networks (PyTorch, scikit-learn, OpenCV) achieving 95% accuracy in heart disease detection.Integrated U-Net segmentation into medical imaging workflows resulting in 70% faster diagnoses in clinical settings.	08/2021 – 07/2022 Bangalore, India

Projects

YieldWatch: AI-Powered Portfolio Analysis Agent

- Built **LangChain agent with Python, OpenAI & Yahoo Finance MCP** to analyze portfolios and detect underperforming assets (**85% precision**).
- Automated risk scoring via **Sharpe ratio analysis** to cut manual review time **70%**.

Deepshot AI – Lip Sync Research Collaboration (01/2023 – 03/2023)

- Developed and enhanced a **state-of-the-art lip sync model**, improving synchronization and accuracy by extending the **Wav2Lip** codebase.
- Synthesized research findings from leading papers to apply insights to complex **speech-to-video alignment** problems.
- Reviewed and advised on the optimization of proprietary **GAN, diffusion models**, and **multimodal ML** models under NDA.