DABOJIT SARKAR

Dhaka, Bangladesh | debsarkards2002@gmail.com | github.com/Dabojit-sarkar-dev | dabojitsarkar.vercel.app

AI & Machine Learning Engineer | Computer Vision, Deep Learning & MLOps

EDUCATION

Kalinga Institute of Industrial Technology, Bhubaneswar, India **Expected 2027**

B.Tech, Computer Science & Engineering (Artificial Intelligence & Machine Learning)

Relevant coursework: Machine Learning, Artificial Intelligence, Data Structures & Algorithms, Computer Vision, High Performance Computing, Network & Cyber Security

Notre Dame College, Dhaka, Bangladesh; Higher Secondary Certificate, Science; GPA 5.00/5.00; 2022

St. Gregory's High School & College, Dhaka, Bangladesh; Secondary School Certificate, Science; GPA 5.00/5.00; 2020

TECHNICAL SKILLS

AI and ML: PyTorch, TensorFlow, Scikit Learn, OpenCV, Librosa, Hugging Face Transformers, CNNs, Transformers, Computer Vision

Languages: Python, TypeScript, JavaScript, C++, Java, SQL, ABAP

MLOps & Data: System Design, FastAPI, Celery, Redis, PostgreSQL, Docker, Kubernetes (GKE), CI/CD, MinIO/S3, REST APIs

Cloud & Security: Google Cloud Platform (Compute Engine, Cloud Storage, VPC, IAM), Vercel, 2FA, Zero Trust

PROJECTS

DiffGuard | AI Deepfake Video Forensics **github.com/Dabojit-sarkar-dev/deepfakevideo-project**

- Reimplemented DiffFake research for deepfake video detection using differential anomaly detection on authentic facial pair embeddings, EfficientNet B4, Gaussian mixture models, 2D DCT analysis, and Grad CAM
- Built a production oriented pipeline with Next.js, FastAPI, Celery, Redis, Docker, and PostgreSQL; achieved 99.3% average AUC across FaceForensics++ benchmarks

SoundProof | AI Deepfake Audio Detector **github.com/Dabojit-sarkar-dev**

- Developed a PyTorch audio forensics application that transforms speech into 40 x 300 MFCC representations and classifies synthetic voices with a custom 600K parameter CNN
- Reached 93% validation accuracy on ASVspoof 2019 and delivered CPU inference in under 1 second through a Streamlit interface

ClauseLens | Generative AI Legal Contract Risk Engine **lnkd.in/dcMP2pMk**

- Built a legal NLP risk analysis prototype using React, TypeScript, Gemini, Groq, and Neon PostgreSQL; anchored identified liabilities to verbatim PDF paragraph offsets
- Implemented email OTP authentication and multi tenant workspace isolation to support secure contract review workflows

CERTIFICATIONS

Google Cloud: Google Cloud Fundamentals: Core Infrastructure; Preparing for Your Associate Cloud Engineer Journey

AI & Security: DeepLearning.AI Neural Networks and Deep Learning; Fortinet NSE 1, NSE 2, and NSE 3 Certified in Cybersecurity