

MD SHAHIDUL KHAN PAPPO

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CONTACT

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🌐 [Linkedin](#) | 📄 [Researchgate](#) | 🌐 [Personal Website](#) | 📁 [GitHub](#)

PROFESSIONAL SUMMARY

Computer Science graduate specializing in AI/ML and healthcare-focused machine learning, with published research in IEEE Access (Q1) and international conferences on explainable, real-time ML systems. Proficient in Python, PyTorch, TensorFlow, and end-to-end ML pipelines, including deployment and MLOps. Seeking an AI/ML Engineer role where research-driven solutions meet real-world impact.

EDUCATION

American International University-Bangladesh (AIUB)

Bachelor of Science in Computer Science and Engineering

Jun 2021 - Jan 2026

Major: AI and Computational Theory

Holy Flower Model College (HFMC)

Higher Secondary Certificate (Science)

Jun 2017 - Jun 2020

Ghior D.N. Pilot High School

Secondary School Certificate (Science)

Jan 2015 - Mar 2017

SKILLS

- **Programming:** Python, C++, SQL
- **ML / DL:** NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch
- **Computer Vision:** OpenCV, YOLO, Roboflow
- **Data & Explainability:** Matplotlib, Seaborn, SHAP, LIME
- **MLOps & Tools:** MLflow, Feast, Seldon
- **Platforms:** Google Colab, Jupyter Notebook, GitHub, Kaggle
- **Web & API Frameworks:** Django, Flask, Streamlit

CERTIFICATIONS

- Machine Learning (*Coursera, 2023*)
- Python Programming (*Kaggle and HackerRank, 2023*)
- OpenCV (*OpenCV University, 2024*)
- CNN using TensorFlow (*Coursera, 2023*)

RESEARCH PUBLICATIONS

Journal Article:

- NefroAI: Explainable real-time CKD prediction using ML & feature selection, [IEEE Access \(Q1 Journal\)](#), Dec 2025

Conference Papers:

- RenalAI: Explainable ML for early CKD prediction from EHRs, **ICCIT 2025**
- OvaSignal AI: Explainable real-time ML for early ovarian cancer prediction, **WIECON-ECE 2025**

EXPERIENCE

Artificial Intelligence Research & Innovation Lab (AIRIL)

Research Assistant | Jan 2025 – Present

- Conduct AI/ML and Computer Vision research projects.
- Collaborated on research leading to journal & conference publications.

PROJECTS

Project 1: RetinaVessel Pro – AI Retinal Vessel Analysis

Python, PyTorch, Streamlit, MLOps

- Segmentation of retinal vessels using Attention U-Net
- Extracted 10+ vessel features for analysis
- **MLOps integration:** model tracking & monitoring
- Interactive dashboard with visualizations & exports

GitHub: [Project Link](#)

Project 2: TB-Diabetes Risk Prediction Web App

Python, Flask, Random Forest, SQLite

- Predicts TB-Diabetes risk with confidence scores
- Bilingual UI (English & বাংলা) with prevention tips
- Tracks prediction history with visual dashboard
- Built with Flask, Random Forest, SQLite, Bootstrap

GitHub: [Project Link](#)

RESEARCH INTEREST

- Artificial Intelligence & AGI
- Machine Learning / Deep Learning & Biostatistics
- Computer Vision & Biomedical Imaging
- Generative AI, NLP & Large Language Models (LLMs)

LEADERSHIP & ACTIVITIES

Firefox at AIUB

Role: *Club Lead Peer*

Oct 2023 - Dec 2024 | Dhaka, Bangladesh

BASIS Student's Forum (AIUB Chapter)

Role: *Executive*

Nov 2022 - Oct 2023 | Dhaka, Bangladesh

AIUB Computer Club

Role: *General Member*

Apr 2022 – Dec 2024 | Dhaka, Bangladesh

VOLUNTEERING

AIUB Computer Club - Event Organizer

AIUB Cyber Gaming Fest 2022

Dec 1 - Dec 4, 2022 | AIUB, Dhaka, Bangladesh

HONORS & AWARDS

- **Finalist**, International Computer Science Competition (ICSC), Nov 2025 – **top 10% of all participants.**