



MD. SHAHIDUL KHAN PAPPO

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About

Final-year Computer Science & Engineering student at American International University-Bangladesh with a strong focus on AI, Machine Learning, Computer Vision, and Neural Networks. Experienced in research and project development, I enjoy tackling complex problems and creating practical AI-driven solutions. Dedicated to continuous growth, I aspire to contribute impactful innovations to the future of AI and technology.

EDUCATION

American International University-Bangladesh(AIUB)

Bachelor of Science in Computer Science and Engineering

- Major in Computational Theory

Jun 2021 – Present (*Expected Graduation: Dec 2025*)

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: Scikit-learn, TensorFlow, PyTorch, Keras
- Data & Explainability: NumPy, pandas, SHAP, LIME
- Computer vision: OpenCV & YOLO
- Natural Language Processing: NLTK & spaCy
- Tools: Google Colab, Jupyter, Flask, Streamlit, Git, GitHub

CERTIFICATIONS

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

EXPERIENCE

Artificial Intelligence Research & Innovation Lab (AIRIL)

Junior Research Assistant | Jan 2025 – Present

- Conduct AI/ML and Computer Vision research under supervision.

RESEARCH PUBLICATIONS

- CKD Prediction with XAI** – Under Peer Review (Submitted to IEEE Access).
- Submitted two additional papers to **WIECON-ECE** and **ICCIT 2025** conferences (Under Review).

PROJECTS

Project 1: Explainable AI for Mental Health Diagnosis

Aug 2024 – Sep 2024

Built a Random Forest model to predict mental health treatment needs. **GitHub:** [Link](#)

Project 2: AI-Powered TB-Diabetes Risk Prediction App

Feb 2025 – Mar 2025

Developed a Flask app using a Random Forest model with synthetic health data. **GitHub:** [Link](#)

Project 3: Dream Weaver Studio

(Jun 2025 – Jul 2025)

AI web app that turns dream descriptions into themed stories with visuals using GPT and sentiment analysis. **GitHub:** [Link](#)

RESEARCH INTEREST

- Artificial Intelligence & Explainable AI (XAI)
- Machine Learning (ML) and Deep Learning (DL)
- Computer Vision and NLP
- Generative AI & Large Language Models (LLMs)

LEADERSHIP & ACTIVITIES

Firefox at AIUB

Role: **Club Lead Peer**

Oct 2023 - Dec 2024 | Bangladesh

- Team lead, organized multiple workshops.

AIUB Computer Club

Role: **General Member**

Apr 2022 – Dec 2024 | Dhaka, Bangladesh

- Contributed to video editing and post-production projects.

BASIS Student's Forum (AIUB Chapter)

Role: **Executive**

Nov 2022 - Oct 2023 | Dhaka, Bangladesh

- Led activities as an executive member, contributing to the organization's success at AIUB.

VOLUNTEERING

AIUB Computer Club - Event Organizer

AIUB Cyber Gaming Fest 2022

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

ADDITIONAL INFORMATION

- Languages:** English, Bengali
- Availability:** Open to research collaborations and AI-related opportunities.