

# SHAKHAWAT HOSSAIN

AI Engineer

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## SUMMARY

I am an AI Engineer at HawkEyes Digital Monitoring Limited, specializing in optimizing Computer Vision, NLP, OCR, and AI models. I ensure top-notch quality and seamlessly deploy solutions on cloud platforms and applications. Passionate about leveraging cutting-edge technology to solve real-world problems, I actively learn new technologies and coding practices to push the boundaries of AI innovation. I have successfully solved over 300+ programming challenges on platforms such as Codeforces, URI, and DIU Bluesheet.

## SKILLS

**Languages:** C, C++, Python, Java, MySQL

**Data Analysis:** NumPy, Pandas, Matplotlib, Seaborn

**Frameworks:** TensorFlow, PyTorch, Scikit-learn, Keras, OpenCV, Hugging Face

**Tools:** Git, Jupyter, VS Code, LaTeX, Roboflow, Colab, MS PowerPoint, Word

**Web Tools:** FastAPI, Flask, RestAPI, ReactJS, Tailwind

## EDUCATION

01/2020 – 12/2023 **B.Sc. in Computer Science and Engineering**

Daffodil International University (DIU)

CGPA: 3.60/4.00

**Major:** Artificial Intelligence

**Thesis:** Graph-Based Breast Tumor Classification Through Ultrasound Imaging Using Radiomics Features.

## EXPERIENCE

02/2024 – Present **AI Engineer**

HawkEyes Digital Monitoring Limited

Prepared datasets, trained and fine-tuned models, and optimized accuracy for real-world AI applications.

05/2024 – Present **Research Assistant (Remote)**

University of Queensland

Developed a hybrid graph-based brain glioma grading system using 3D MRI datasets.

01/2024 – 02/2024 **Junior Front-End Developer**

M4yours Dev

Designed a responsive news portal template for publishers and bloggers.

01/2023 – 12/2023 **Research Lab Member**

HIRL Lab (DIU)

Worked on medical image disease detection, sentiment analysis, and integrated computer vision with advanced ML algorithms.

## PROJECTS

BAT Bangladesh **YOLO Segmentation, Detection, Warp Perspective, Sequence Generation, LLAMA2, Langchain**

- BAT AI-Based Cigarette Brand Detection and Competitor Analysis System:**

Built an object detection system using YOLO for cigarette brand identification, sequence validation, and competitor analysis.

- Chatbot Development:**

Developed an NLP chatbot for dynamic conversations across multiple platforms, handling queries and providing real-time customer support with personalized responses.

- **OCR Based Billing System for Laver Bazar:**

Developed an OCR application to capture invoice images and extract item names, quantities, and prices. Automated data digitization and storage, enhancing inventory and financial management by reducing errors.

- **Voice Recognition System for Word Detection and Counting:**

Developed a voice recognition application that processes audio input and identifies the frequency of specific words or phrases.

- **Face Recognition System for Gazipur Metropolitan Police (GMP):**

Designed a real-time facial recognition system that enables secure access control, user verification, and efficient recognition history management.

## ACHIVEMENT

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## PUBLICATIONS

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- Md. Aiyub Ali, **Md. Shakhawat Hossain**, Md.Kawsar Hossain, Subhadra Soumi Sikder, Sharun Akter Khushbu, Mirajul Islam, "AMDNet23: Hybrid CNN-LSTM Deep Learning Approach with Enhanced Preprocessing for Age-Related Macular Degeneration (AMD) Detection", Intelligent Systems with Applications journal, Elsevier. <https://doi.org/10.1016/j.iswa.2024.200334>
- Md. Aiyub Ali, **Md Shakhawat Hossain**, Taslima Ferdaus Shuva, Muhammad Ali Abdullah Almoyad, Nabil Anan Orka, Md. Tanvir Rahman, Risala Tasin Khan, M. Shamim Kaiser, and Mohammad Ali Moni. "RGNN3D: A Hybrid Radiomic Graph Neural Network for 3D MRI Glioma Grading" Knowledge-Based Systems. [In Review]

## REFERENCES

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- **Dr. Mohammad Ali Moni, PhD (Cambridge):** Professor and Head, AI and Digital Health Technology, University of Queensland, Australia  
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