



Md. Farhad Billah

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Portfolio: [farhadbillah](#)

ABOUT ME

AI Engineer with 2+ years of experience building production-ready AI (OCR, voice assistants, text-to-video). Skilled in LLMs, RAG, FastAPI, and computer vision. Passionate about turning research into scalable solutions. Author of 3 IEEE/Journal & conference papers.

EDUCATION

BSc in CSE (Major: Data Science) at East West University, Dhaka, Bangladesh

2020 – 2024

CGPA: 3.08 out of 4.0 (~ 85%)

TECHNICAL SKILLS

Programming Languages: Python, C++, C, and SQL.

ML/AI: ML, DL, NLP, CV, RAG, MCP, PyTorch, TensorFlow/Keras, Scikit-learn, and LLMs.

Frameworks & Tools: FastAPI, Docker, Postman, Git, Hugging Face, OpenAI, Groq, Pydantic, and Termius.

Specialties (Applied & Data): OCR, Voice-to-Text, Text-to-Video, Image Processing, Recommendation Systems, Pandas, NumPy, Data Cleaning, Data Visualization, Data Mining, Exploratory Data Analysis (EDA), Statistical Modeling.

PROFESSIONAL EXPERIENCES

AI Engineer, SM Technology Dhaka, Bangladesh

Dec 2024 - Present

Developed and deployed multiple AI-driven applications, including a paragraph evaluator, image processing algorithms, text-to-video generator, fitness recommendation system, and voice-powered assistant. Additionally, built intelligent solutions for content summarization, goal tracking, and personalized self-improvement.

Research Assistant, East West University, Dhaka, Bangladesh

Jan 2026 - Present

Worked on a capstone project in a team of four under the supervision of Dr. Md. Sawkat Ali, Associate Professor. Led end-to-end project planning, task allocation, and timeline management to ensure timely delivery. Collaborated with stakeholders to gather requirements, manage expectations, and present project progress updates.

Data Analyst Intern, Designers Do Futuro, Dhaka, Bangladesh

Aug 2023 - Jan 2024

Worked on diverse Machine Learning projects involving data cleaning, transformation, preprocessing, enhancement, and visualization. Built optimized pipelines to prepare high-quality datasets for reliable model training and analysis.

SELECTED PROJECTS

At SM Technology as AI Engineer

June 2025 - Present

- **Hook - AI Rizz Wingman:** An AI assistant that accepts images from social media (Messenger, Instagram, LinkedIn, and dating apps) and generates intelligent, context-aware replies to help users respond appropriately and effortlessly. ([Google Play Store Link](#)).
- **GREETELY:** Based on the user's selected department, categories, tone of values, and employee recognition criteria, the system generates a concise email for the specified recipient and automatically sends it.
- **AKKORD:** The OCR system extracts key contract details such as risk, summary, ownership, payment issues, termination conditions, financial terms, missing protections, and unusual clauses. It also includes a chat feature to ask related questions.
- **MANIFEX:** It's a based paragraph evaluator that checks sentence structure and word usage, assigning marks based on accuracy. The user provides a paragraph topic, and the AI suggests a list of required keywords that must be included in the paragraph. ([Website Link](#)) ([Google Play Store Link](#)).
- **DFTJUNKIE:** Performs image enhancement, background removal, and automatic trimming using advanced image processing algorithms. ([Website Link](#)).
- **Youimah:** Uses Google VEO3 for text-to-video generation. The system can add background music, and characters are able to talk.
- **PR3DETOR FITNESS:** The AI system can recommend different types of gyms and include YouTube tutorial videos on how to perform exercises. It also provides a private chat system, available for premium subscribers ([App Store](#)).
- **DONNA LIFE:** It is an AI voice assistant that helps you manage tasks hands-free using natural voice commands. It uses FastAPI and OpenAI models to create tasks, answer schedule questions, and offer smart, contextual assistance.

- **TikTok Data Visualization:** A comprehensive visualization of TikTok data with proper data cleaning and preprocessing. The project focuses on transforming raw data into clear, insightful, and meaningful visual analytics.
- **Predicting User Churn in Waze:** A machine learning-based approach for enhancing user retention strategies through data analysis, data preprocessing, and data visualization.
- **FairFare:** NYC TLC's Advanced Fare Estimation App by Automatidata focuses on training multiple machine learning models. The system evaluates their performance and selects the best-performing model for accurate fare prediction.
- **Weather Impact on NYC Subway:** Rainfall classification using multiple machine learning models to analyze patterns and improve prediction accuracy.

ACADEMIC RESEARCH PAPERS

COMPAS Conference	2024
<u>Deep Learning Models for Classification of Red Blood Cells in Microscopy Images for Anemia Diagnosis.</u> (Digital image processing — East West University)	
IEEE Access Journal	2025
<u>Revisiting ONE Simulator in IoV Research: Seeing the Forest Through the Trees.</u> (Capstone Projects A, B & C — East West University)	
3ICT Conference	2025
<u>ShrimpXNet: A Transfer Learning Framework for Shrimp Disease Classification with Augmented Regularization, Adversarial Training, and Explainable AI.</u>	

ACHIVEMENT

- Best Campus Ambassador of Robo Tech Valley (05/2021 – 07/2021, East West University)
- 6th Place Robi Datathon 3.0 Qualifier (2024, Organized by Robi)

LANGUAGE

English: Proficient	Bangla: Native	Nihongo(日本語): N5
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REFERENCES

Md. Mostofa Kamal Rasel, PhD, Associate Professor, Department of CSE, EWU | **Email:**mostofa.kamal@ewubd.edu
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