

ROKSANA AKTER

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Mohakhali, Dhaka - 1212, Bangladesh

About Me

I am an enthusiastic **AI Machine Learning Engineer** with expertise in **data science, deep learning, computer vision, and prompt engineering**. I thrive on designing and deploying **intelligent automation solutions** and contributing to **innovative projects** at the intersection of **NLP, predictive analytics, generative AI, and LLM-based systems**. Passionate about transforming complex problems into **scalable, real-world AI applications** and continuously exploring new technologies to optimize systems and workflows.

Experience

• Betopia Group

AI Engineer

5 March 2025 - Present

Dhaka, Bangladesh

- **Mock Interview Feedback System** – Used **computer vision** to analyze video for **nervousness and confidence**, LLMs to generate feedback, and implemented **voice articulation analysis**. Automated **resume extraction** and **question bank creation**, generating personalized “About Me” sections using LLMs.
- **Hair Extension Shade Matching** – Developed a **ResNet-based hair segmentation pipeline**, applied **K-Means clustering** to pixel data, and matched shades based on **RGB values**.
- **Multi-Agent Chatbot Platform** – Built an **MCP server** integrating **image generation/editing, voice synthesis**, and multiple **AI models** for **e-commerce, movie recommendations, shopping assistance**, and **post caption generation**.
- **HyperSpeed – Car Wrapping** – Implemented **AI-driven car body segmentation** and **wrap application**, handling the **full deployment pipeline** with **Docker** and **CI/CD**.
- **FullSendSport – Sports Analytics** – Developed **score prediction, lineup prediction**, and **head-to-head models** using **Goalserve API** data, deployed to **production systems**.
- **Team Leadership** – Mentored junior developers, conducted **code reviews**, and optimized **CI/CD pipelines** to ensure high-quality, maintainable AI/ML project delivery.

Skills

- **Data Science & ML:** PyTorch, TensorFlow, Hugging Face Transformers, Scikit-learn, OpenCV, Pandas, NumPy, Matplotlib, Seaborn
- **AI Specializations:** Computer Vision, NLP, LLMs, Generative AI, Multi-Agent Systems
- **Research & Analytical Skills:** Feature Engineering, Model Evaluation, Hyperparameter Tuning, Data Visualization, Experimentation, Benchmarking
- **Programming Languages:** Python, C++, SQL, Bash, JavaScript
- **Web & Deployment:** FastAPI, Flask, React, Docker, Docker Compose, Nginx, Vercel, Render
- **Cloud & Hosting:** AWS, Google Cloud, Paperspace, Namecheap, GoDaddy
- **Version Control & DevOps:** Git, GitHub, CI/CD, Kubernetes (basic)
- **Mathematical & Statistical Tools:** Linear Algebra, Probability, Statistics, Optimization, Data Analysis
- **Other Tools & Technologies:** Stable Diffusion, AnimateDiff, MusicGen, Pydub, OpenAI API

Education

• Gopalganj Science and Technology University

B.Sc in Computer Science and Engineering

Jan 2019 – Dec 2024

Gopalganj, Bangladesh

- **CGPA:** 3.25 / 4.00

• Bhawal Bodre Alam Government College

Higher Secondary Certificate (HSC)

Apr 2018

Gazipur, Bangladesh

- **GPA:** 3.83 / 5.00

• Johura Khatun Girls High School

Secondary School Certificate (SSC)

Feb 2016

Mymensingh, Bangladesh

- **GPA:** 4.89 / 5.00