

ROKSANA AKTER

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 Roksana Akter |  Roksana18cse04 |  Roksana Akter

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)

- GPA: 4.89 / 5.00

Feb 2016
Mymensingh, Bangladesh