

**Abdullah Al Muhimine (Tousif)**

**AI/ML & Full-Stack Developer**

Bangladesh | [Email](#) | [GitHub](#) | [LinkedIn](#)

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## Summary

AI/ML and Full-Stack Developer specializing in building intelligent systems and scalable web applications. Experienced in LLM fine-tuning, real-time AI pipelines, and modern full-stack development with Node.js, Next.js, and cloud databases.

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## Skills

**AI & ML:** Python, TensorFlow, PyTorch, Scikit-learn, OpenCV

**Web Development:** HTML, CSS, JavaScript, TypeScript, React.js

**Frameworks & Tools:** Node.js, Express, Next.js, LangChain, LangGraph, Streamlit

**Databases:** MongoDB, Supabase, PostgreSQL, SQL

**Cloud & DevOps:** Vercel, Render, Git, GitHub

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## Projects

### Flood Forecasting Chatbot

**Tech Stack:** Python, LangChain, Gemma2:2B, Scikit-learn, Node.js, Visual Crossing API, MongoDB

**Description:** Hybrid AI chatbot for real-time flood forecasting. Uses custom ML model and LLM for natural conversation.

#### Highlights:

- Hybrid AI: ML + LLM integration
- Real-time weather-based reasoning
- Forecast validation with training dataset references

**Metrics:** 90% accuracy

**Demo:** [Link](#) | [GitHub](#)

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### Physics Chatbot

**Tech Stack:** Python, LLaMA-Factory, LangChain, Node.js, React

**Description:** Intelligent assistant solving and explaining physics problems with step-by-step derivations.

#### Highlights:

- Custom fine-tuned LLM via LLaMA-Factory

- Node.js API for scalable inference
  - Step-by-step explanation
- Metrics:** Handles 500+ physics concepts  
**GitHub:** [Link](#)
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### Data Structure Learning LLM

**Tech Stack:** Python, LangChain, Node.js, React, MongoDB, Supabase, Multi-Agent Models, MCP Servers

**Description:** AI-powered tutor teaching and visualizing algorithms interactively.

**Highlights:**

- LLM explains code, logic, and algorithm behavior
  - Real-time data structure visualization
  - Interactive learning for stack, queue, tree, graph
- Metrics:** Used by 200+ students  
**GitHub:** [Link](#)
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### Bouncy Book Store

**Tech Stack:** React, Node.js, Express, MongoDB

**Description:** Full-stack bookstore with dynamic cart, product search, and authentication.

**Highlights:**

- Secure JWT authentication
  - Modular Node.js API
  - Real-time inventory & cart management
- Metrics:** Built for 1000+ concurrent users  
**Demo:** [Link](#) | [GitHub](#)
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### Education

*(You can fill in your degree, university, and years here)*

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### Contact

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**Location:** Bangladesh

