

# MUTASSIM AL SHAHRIAR ZEEM

## BACKEND / AI ENGINEERING INTERN

📍 Rupnagar, Mirpur, Dhaka  
☎️ +8801995901858

✉️ mutassimalshahriar@gmail.com  
🔗 github.com/mutassimalzeem

### SUMMARY

Electrical & Electronics Engineering student (2nd Year) building backend + AI-powered applications using Python. Experienced in automation, computer vision, and ML/NLP projects, with a strong focus on clean, maintainable engineering and practical problem-solving.

### TECHNICAL SKILLS

<b>Languages:</b> Python, SQL	<b>Data/ML:</b> Pandas, NumPy, scikit-learn,	<b>Tools:</b> Git/GitHub, Docker (basic),
<b>Backend:</b> FastAPI, REST APIs	TensorFlow, PyTorch	<b>Design:</b> Adobe Illustrator,
Auth (JWT), Async basics	<b>Computer Vision:</b> OpenCV, real-time	Photoshop
	video processing, threading (QThread)	

### PROFESSIONAL EXPERIENCE

#### PedestrianPro — Real-Time Pedestrian Detection App

- Tech: Python, OpenCV, PyQt5, NumPy
- Built a real-time pedestrian detection tool using OpenCV HOG + PyQt5 UI.
- Added drag-and-drop upload for image/video input and strong error handling UX.
- Optimized frame processing using QThread for smooth real-time performance.

#### Smart Personal Finance Coach (Full-Stack + RAG)

- Tech: FastAPI, React+Vite, PostgreSQL, LangChain, Chroma/FAISS
- Designed an architecture for transaction ingestion → categorization → grounded Q&A over personal finance data.

#### Movie Recommender System (Content-Based)

Tech: Python, Pandas, scikit-learn (CountVectorizer, cosine similarity), FastAPI

- Implemented “movie DNA” similarity using genres/keywords/cast/director and served recommendations via API.

### EDUCATION

#### 🎓 BSc in Electrical & Electronics Engineering – Islamic University of Technology Sept 2024 – Present

- 2nd Year, 3rd Semester
- Expected Graduation: 2028 | Relevant coursework: Programming, Electronics, Signals, Control.

#### 🎓 Notre Dame College – Science March 2022 – Aug 2024

- Grade: GPA 5.0 in HSC

### ADDITIONAL INFORMATION

- **Languages:** Bangla, English, Hindi, Urdu
- **Extra Curricular:** Freelance Graphic Designer - Worked with 50+ clients globally. Created marketing materials, logos, and UI components using Adobe Illustrator & Photoshop.