Ahib Afnan Siam

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in Ahib-Afnan-Siam   ○ Ahib-GitHub

Experience

• Sub Assistant Manager — MIS   *Dhaka, Bangladesh*
PRAN-RFL Group   *November 2025 – Present*

- Built a natural-language-to-SQL assistant, named "Uttoron", using FastAPI, ChromaDB, and Oracle, integrating hybrid LLMs (DeepSeek-V3.2-Exp, DeepSeek-Coder-V2:16B, Mistral) via Ollama for SQL generation, reasoning, and analytical summaries.
- Engineered schema-aware RAG pipelines with Sentence Transformers and ChromaDB for real-time Oracle SQL execution, intelligent error handling, and visualization of 50M+ enterprise records.
- Improved company-wide workflow efficiency by automating internal reporting and data access, increasing operational speed and decision-making effectiveness.
- Developed a real-time facial recognition monitoring system for PRAN-RFL Group using Python, FastAPI, Flask, and Oracle, integrating YOLOv8n-Face and MobileFaceNet for multi-camera face detection, recognition, and automated attendance tracking with robust quality filtering and identity stabilization.
- Enhanced workplace security and operational efficiency through a dual-dashboard architecture, secure two-step authentication with HRIS validation, intelligent camera management, and real-time system monitoring, enabling reliable employee access control and data-driven decision-making across multiple locations.

• Intern - AI Software Engineer — MIS   *Dhaka, Bangladesh*
PRAN-RFL Group   *June 2025 – November 2025*

Education

BRAC University, Dhaka   *July 2020 - Feb 2025*
Bachelor of Science in Computer Science and Engineering

Notre Dame College, Dhaka   *2017 - 2019*
Higher Secondary School Certificate (HSC)

Projects

• PRAN-RFL AI Assistant - Uttoron   *github.com/Uttoron/* ☑

- **Languages:** Python, TypeScript
- **Frameworks & Libraries:** FastAPI, React, Tailwind CSS, ChromaDB, Sentence Transformers, Chart.js, React Markdown, Framer Motion, Lucide React
- **Models:** DeepSeek-Coder-V2:16B (SQL generation), DeepSeek-V3.2-Exp(Reasoning), Mistral (summarization & analytical insights) via Ollama & OpenRouter
- **Databases:** Oracle (via cx_Oracle), SQLite (feedback storage)
- **Development Tools:** Git, GitHub, Unit Testing, Code Reviews

• Drishty- PRAN-RFL Facial Recognition Monitoring System   *github.com/drishty/* ☑

- **Languages:** Python, JavaScript
- **Frameworks & Libraries:** FastAPI, Flask, OpenCV, YOLOv8, MobileFaceNet, FAISS, Bootstrap
- **Models:** YOLOv8n-Face (face detection), MobileFaceNet (face recognition), ArcFace (Backup), YuNet (Backup)
- **Databases:** Oracle Database
- **Development Tools:** Git, Docker, REST APIs, Unit Testing, FAISS Vector Indexing

Technical Skills

Languages: Python, TypeScript, JavaScript (ES6+), C, C++, C# (basic), PHP, HTML5, CSS3

AI & Machine Learning:

- **LLM Integration & Orchestration:** Ollama, OpenRouter
- **Embeddings & RAG:** Sentence Transformers, ChromaDB
- **Core Data Science & ML:** Pandas, NumPy, Scikit-learn, OpenCV, Matplotlib, Seaborn
- **LLM Models:** DeepSeek (Coder-V2, R1, V3.1), Mistral, Llama 3.1, Gemini 1.5 Flash

- ○ **Computer Vision & Face Recognition:** YOLOv8n-Face, MobileFaceNet
- ○ **Deep Learning Frameworks:** PyTorch
- ○ **Vector Similarity Search:** FAISS

Web & Application Frameworks & Libraries:
- ○ **Backend:** FastAPI, Node.js
- ○ **Frontend:** React.js, Tailwind CSS, Bootstrap, HTML, CSS, JavaScript
- ○ **UI/UX & Visualization:** Framer Motion, Lucide React, Chart.js, React Markdown
- ○ **Real-Time Communication:** WebSockets, Uvicorn

Databases, Infrastructure & DevOps:
- ○ **Databases:** Oracle DB, cx_Oracle, MySQL, SQLite, ChromaDB
- ○ **Configuration & Logging:** PyYAML, Loguru
- ○ **System Monitoring & Utilities:** Psutil
- ○ **API & Networking:** REST APIs, Requests
- ○ **Containerization:** Docker

Developer Tools & Process: Git, GitHub, Unit Testing (pytest/Jest), Debugging, Code Reviews, LLM Prompt Engineering & Optimization

Other Skills:
- ○ RESTful API Development, Object-Oriented Programming (OOP), Data Structures & Algorithms
- ○ Secure Coding (Authentication/Authorization, Input Validation), Responsive Design, Computer Vision
- ○ Natural Language to SQL (NL2SQL), Retrieval-Augmented Generation (RAG) Pipeline Development
- ○ Full-Stack AI Application Development

LeetCode (400+ solved): *leetcode.com/Ahib_Afnan_Siam* ↗
HackerRank (100+ solved): *hackerrank.com/ahibafnan99* ↗

Achievements & Certifications

- **Top 5 (Worldwide)** in Mission OZ 2022 — Space Teams - *View certificate* ↗   *2022 - 2023*
- ***Winner** of Project Showcasing at Mind Sparks 2023, Ahsanullah University of Science And Technology (AUST)*
- **Certificate of Accomplishment in Software Engineering**   *October 2024*

HackerRank — *Credential ID: CF5B58274C39* ↗