# AMIR SOHEL

# PROFESSIONAL SUMMARY

Al-focused B. Tech student passionate about developing real-world tools using machine learning and full-stack technologies. Built NLP-powered healthcare assistant, AR application, and safety-focused computer vision systems. Adept in Python, Java, and AI frameworks. Seeking an internship opportunity to transform technical skills into industry impact.

# **EDUCATION**

#### **BACHELOR OF TECHNOLOGY - ARTIFICIAL INTELLIGENCE**

Amity School of Engineering and Technology, Kolkata | 2022 - 2026(expected)

# TECHNICAL SKILLS

Programming Languages: Python, Java, SQL

Operating System: Windows, Linux

AI/ML: PyTorch, Tensorflow, Scikit-learn, OpenCV, YoloV8

Version Control: Git, GitHub Database: MySQL, Oracle

### PROJECT EXPERIENCE

#### **Discharge Summary Chatbot**

Developed an AI powered chatbot integrated with Hospital Management Systems to automate the patient discharge summaries.

- LLMs (Llama3-70B) for context-aware summary creation using structured patient data.
- Generated editable, doctor-verified PDFs, improving hospital workflow efficiency.

#### AR MenuChef

Created an AR app to visualize 3D food models from physical menu cards.

• Utilized Unity and Vuforia SDK with C# scripting to create immersive dining experiences.

**Accident Detection**: Trained YOLOv8 models on a dataset of 2000+ images for real-time accident detection.

• Enhanced model accuracy for safety-critical applications in transportation.

# **CERTIFICATIONS**

- Machine Learning Andrew Ng (Coursera)
- Python Programming (Udemy)
- Java programming (Apna College)

## **ACHIEVEMENTS**

• Secured 2<sup>nd</sup> place in a college-organized inter-college hackathon with a VR-based food menu scanner project.

# ADDITIONAL INFORMATION

- Languages: English, Bengali, Hindi
- Interests: Movies, Books