

## **STUDENT MONITORING SYSTEM USING CHATBOT:**

### **Primary Goal:**

1. Automate student monitoring to remove manual record-keeping.
2. Provide a real-time chatbot platform for data access.
3. Enhance speed, accuracy, and efficiency in student data management.

### **Challenges and Solutions:**

1. Manual Paperwork → Digitize records with chatbot access.
2. Efficient Query Handling → Use NLP for accurate query interpretation.
3. Human Error → Automated CSV uploads ensure accuracy.
4. Data Security → Role-based access and encryption for privacy.

### **Technology Stack:**

Frontend: HTML, CSS, JavaScript

Backend: Python (Django)framework →NLP Library: NLTK

Database: SQL

Tools: CSV handling for bulk data.

### **Modules:**

1. Admin – Manages users and data.
2. Faculty – Adds attendance/marks.
3. Student – Accesses data via chatbot.
4. Database – Stores student info.
5. Chatbot – Real-time interaction using NLP