1.attendance and leave
2.salary
3.employee tasks
4.reports
5.employee performance rating
6.track leave salary cuttings
7.leave manager approval
8.raise leave request
9.HR remove or add employee
10.salary calculation based on attendance

AI-Enabled Employee Management System

1 What this project is

- A system to manage employees

- Handles attendance, leave, salary, tasks

- Adds simple AI for analysis and suggestions

2 Main Features

- Employee add / edit / delete

- Attendance marking (Present / Absent / Late)

- Leave request & approval

- Salary calculation

- Task assignment

- Reports for HR

3 AI Used

- Attendance Pattern Analyzer

- Smart Leave Recommendation

- Salary Anomaly Detection

4️⃣ How AI Works (Simple Logic)

Attendance Pattern Analyzer

- **Count:**

  - Late days

  - Absent days

- **Rules:**

  - Late > 4 → "Frequently Late"

  - Absent ≥ 3 & Late ≥ 3 → "Irregular Attendance"

Smart Leave Recommendation

- Check:

  - Leave balance

  - Team availability

- Rule:

  - Enough balance → Suggest Approve

  - Else → Suggest Review

Salary Anomaly Detection

- Compare current salary with last month

- Rule:

    - Difference > 30% → Flag anomaly

5 New Topics Students Need to Learn

Backend (Python)

- Flask or Django basics

- Basic date handling

- Simple calculations

Database

- SQL basics

- Tables & relationships

- CRUD operations

Frontend

- HTML forms

- JavaScript form validation

- Display alerts / messages

6 Where Each Topic Is Used

Topic	Where Used
Flask / Django	Backend logic
SQL	Employee, attendance, leave tables
If-else logic	AI rules
Python functions	Attendance analysis
HTML forms	Attendance & leave input
JavaScript	UI validation & alerts