**RIPHAH INTERNATIONAL UNIVERSITY**

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**Faculty of Computing**

**FINAL YEAR PROJECT INITIAL PROPOSAL**

**AI-Powered License Plate Recognition**

**Project Team**

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| **Full Name of Student** | **SAP Id** | **Program** | **Contact Number** | **Email Address** |
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**Ms. Anum Aleem**

(Lecturer)

**Project Proposal**

**Project Title:** AI-Powered License Plate Recognition

# Description:

Our Final Year Project, **AI-Powered License Plate Recognition**, develops an automated system that makes vehicle entry faster, easier, and more secure. The system uses image processing and machine learning to detect and recognize car number plates. When a vehicle arrives, it captures an image of the plate, reads the characters, and verifies them against a database. If the plate is already registered, the gate opens automatically; otherwise, entry is denied. This reduces manual checking, prevents unauthorized access, and saves time. To enhance safety further, the system also includes an **Alerts and Notifications** feature that sends instant alerts when specific plates are detected, such as stolen vehicles. Our project is practical for universities, offices, and residential areas, providing a reliable and secure solution for managing vehicle access.