Micro Processor Based System Design



Submit to: Dr. Saad Qasim Khan Assistant Professor, CIS

S.No	Name	Roll Number
1	MAHNOOR ZIA	CS-22101
2	ANOOSHA KHALID	CS-22104
3	LAIBA IQRAR	CS-22112

Abstract:

Object Recognition System

We propose to build a **object recognition** using the ESP32-CAM and Edge Impulse platform. The system captures real-time images and classifies objects using a trained machine learning model deployed on the microcontroller. It demonstrates edge AI capabilities on low-power embedded hardware.

Hardware Components:

ESP32-CAM FTDI Programmer (USB to Serial adapter) Jumper wires

Software/Technologies:

Edge Impulse Arduino IDE ESP32 Board Manager