AutoPark is an Autonomous Car Parking System project. AutoPark utilizes remarkable advancements in image processing technology, revolutionizing the reality of automatic cars. With the integration of cutting-edge components and tools, this project introduces an innovative parking logic for cars.

The parking area, shaped like a rectangle, is equipped with parking slots positioned along its sides. Even with some slots occupied, the car's advanced detection capabilities enable it to identify and navigate toward empty parking spaces, regardless of its starting position.

Real-time image analysis plays a crucial role, providing the car with accurate instructions for autonomous movement. Combining hardware components like ESP32 CAM with the OpenCV library, AI technologies, and sophisticated programming languages, this project presents an efficient and reliable solution for addressing parking challenges.

Its user-friendly interface and practical applications make it a compelling showcase for the future of autonomous parking systems.