SAAID WEBSITE

In a strategic collaboration with the Abshar platform, SAAID is disrupting traditional driver training by implementing a fully objective, AI-powered qualification ecosystem,and Our model guarantees integrity and competence, moving beyond subjective human error and traditional limitations. The journey is streamlined into three essential, mandatory phases:

Phase 1: Theoretical Exam
The Online Exam: Candidates begin with a rigorous, 100 -question theoretical test covering traffic laws. This phase acts as an AI-enforced knowledge barrier before practical training begins.

Phase 2: On-Track Training
Use our vehicles, which are equipped with the latest AI technology and high-precision sensors. This dedicated practice takes place inside our training center to master and perfect basic driving skills under automated supervision.

Phase 3: Real-World Driving
Training begins by activating the Smart Route Guidance feature, where the vehicle's AI system automatically determines the optimal route on public roads. It focuses on locations with lower traffic density and risk to maximize the effectiveness of the learning process. Following this, the AI system conducts the objective Final Assessment of the trainee's competency in complex, real-world scenarios. Upon successful completion of this phase, the automated and secure transfer of verified qualification data to the national platform (Absher) is ensured, after which the authorized governmental body handles the issuance of the final driver's license.

Note: You must pass each phase with a minimum score of 85%, validated entirely by the Artificial Intelligence system, to proceed to the next step.

The website will be connected with Absher, and will utilize NAFATH Verification.

SAAID WEBSITE

- Choose the Package That Fits You:
- 1. Basic Plan
- Price: 900 SAR
- Includes:
- A company car for Phase 2 and 3.
- The online exam for Phase 1.
- Does Not Include:
- Detailed educational videos.
- A comprehensive PDF guide for all phases.
- Tips and strategies for success.
- 24/7 technical support.
- Additional training attempts.
- 2. Premium Plan
- Price: 950 SAR
- Includes all features of the Standard Package, plus:
- The VIP Bundle, which contains all the tools and resources you need to guarantee your success.
- Important Note: The free resources available on the website do not guarantee the required passing score.

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STEP 2

ON-TRACK TRAINING

- **Concept:** After passing the theoretical exam, the user moves to a physical training car on a closed track. This vehicle is equipped with an advanced AI system that acts as a virtual instructor. The AI provides precise, real-time voice commands and instructions for critical maneuvers like turns, U-turns, and braking. The system uses a suite of sensors and cameras to evaluate the user's performance instantly and objectively, ensuring they learn the correct techniques in a controlled and safe environment.
- **Goal:** To teach users the fundamental practical driving skills in a fully controlled and monitored setting.
- **Technology:** The core technologies here are Deep Learning and Computer Vision. We will use TensorFlow or PyTorch to develop the Deep Learning models that process data from the car's sensors and cameras, enabling the system to make immediate instructional decisions. OpenCV will be used for processing and analyzing video feeds, tracking the car's position on the track and monitoring user actions like hand placement on the steering wheel. Additionally, the ROS (Robot Operating System) will manage and coordinate data flow between the various sensors and systems, ensuring seamless operation.

STEP 2

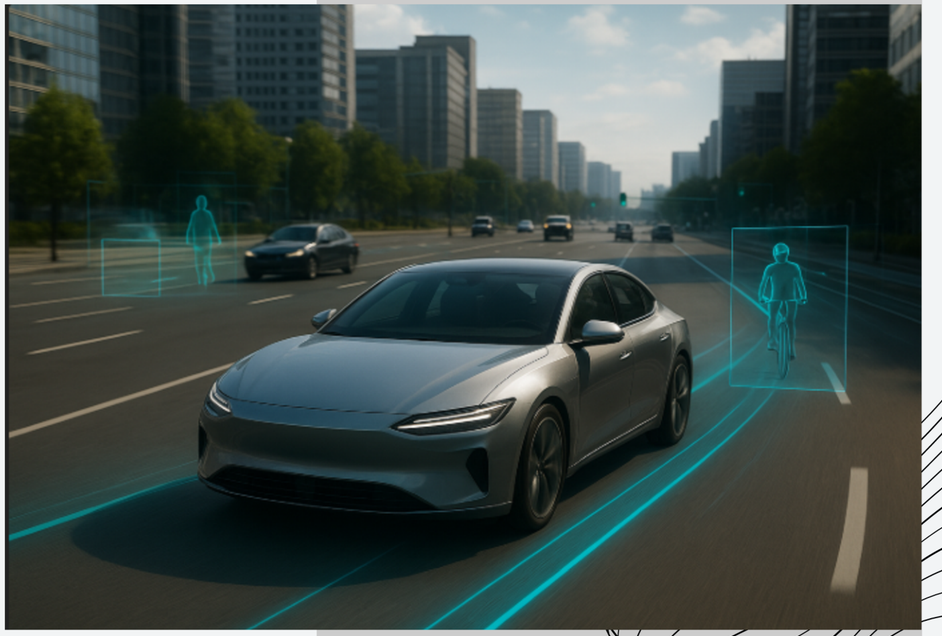
THE TECHNICAL BACKBONE

- **TensorFlow/PyTorch:** These frameworks will be used to build and train complex neural networks. These networks can process real-time data from the car's sensors and cameras to make instant decisions, such as "maintain your speed" or "turn the wheel now." They act as the central brain that translates sensor data into actionable instructions.
- **Computer Vision (OpenCV):** This serves as the system's "eyes." OpenCV will process live video feeds from the car's cameras. It can precisely determine the car's position on the track, monitor lane adherence, track objects like cones, and analyze the trainee's movements (e.g., hand placement on the steering wheel or looking in mirrors). This information is used to provide an accurate performance evaluation.
- **ROS (Robot Operating System):** This open-source framework acts as a central nervous system, connecting all the parts. ROS manages the data streams from the cameras, GPS, and other sensors and sends commands to the car's control systems (brakes, steering wheel), ensuring everything operates smoothly without any lag.

STEP 3

REAL-WORLD DRIVING

- **Concept:** This is the final and most critical phase, where the trainee applies their acquired skills on real public roads. The vehicle's AI system evolves from an instructor into a proactive safety co-pilot, offering real-time alerts for potential hazards and activating autonomous emergency driving functions when absolutely necessary to prevent accidents. Upon successful completion of all required tasks within established safety and performance parameters, the trainee’s data is automatically transferred and linked to the 'Absher' platform for final licensing procedures.
- **Goal:** To transition the trainee from the controlled training environment to safe, independent driving on public roads, confirming their ability to make correct decisions and manage risks in real-world driving scenarios, thereby paving the way for the issuance of their driving license.
- **Technology:** The core technologies here are Deep Learning and Computer Vision. We will use TensorFlow or PyTorch to develop the Deep Learning models that process data from the car's sensors and cameras, enabling the system to make immediate instructional decisions. OpenCV will be used for processing and analyzing video feeds, tracking the car's position on the track and monitoring user actions like hand placement on the steering wheel. Additionally, the ROS (Robot Operating System) will manage and coordinate data flow between the various sensors and systems, ensuring seamless operation.



STEP 3
THE TECHNICAL BACKBONE

- **Ensuring AI Reliability in Critical Conditions:** Our system relies on Deep Learning models to constantly assess risk and make instant decisions (in a fraction of a second). The primary challenge is guaranteeing these models operate with 100% accuracy under all unforeseen conditions, such as heavy traffic, bad weather (rain, fog), or the sudden appearance of any obstacles on the road (cars, pedestrians, debris).
- **The Challenge of High-Performance Computer Vision:** Identifying all surrounding objects (cars, pedestrians, traffic signs) requires extremely fast processing speeds. The challenge is ensuring the system can perform this recognition and classification instantly without delay, as even a minor error or lag could potentially lead to a catastrophic event.
- **Seamless Multi-Sensor Data Fusion:** The system depends on integrating data from cameras, radar, and GPS simultaneously. The challenge lies in perfectly blending all these sensor inputs to create a complete, accurate, and real-time 360-degree picture of the vehicle's surroundings. Any inaccurate or delayed data could severely compromise the critical decisions made by the AI.
- **Legal and Regulatory Complexity:** Since the car operates on public roads and makes autonomous decisions (like activating autonomous driving to prevent accidents), the legal challenge is immense. The question of liability in the event of an accident—whether it falls on the trainee, the company, or the AI system—must be clearly and legally defined.
- **Handling and Analyzing Big Data:** An immense amount of data is collected during each training session. The challenge is effectively storing and analyzing this data (using specialized tools for data analysis) to create accurate performance reports while ensuring the absolute privacy and security of the trainee's personal information.

EVALUATION AND SUCCESS CRITERIA

- Theoretical Phase: Legal Comprehension

- Goal: Accurately measure the user's knowledge of traffic laws and road signs.
- Assessment Mechanism: AI-powered virtual exam on the "SAAID" website.
- Exam Content: The system intelligently selects a unique set of 100 questions for each user from a 3,000-question repository.
- Success Condition: The user must achieve a passing score of 85% or higher (correctly answering a minimum of 85 questions).

- Practical Phase 1: Fundamental Skills

- Goal: Teach and ensure the mastery of basic driving maneuvers on a closed track.
- Assessment Mechanism: In-car AI Virtual Instructor using Deep Learning and Computer Vision.
- What is Evaluated:
- Execution of critical maneuvers (turns, U-turns, emergency braking).
- Timing accuracy and proper technique (e.g., correct hand placement on the steering wheel).
- Vehicle control and adherence to precise instructions.
- Success Condition: Achieving an execution and accuracy rate of 90% or higher across all required maneuvers, based on real-time sensor analysis.

EVALUATION AND SUCCESS CRITERIA

- Practical Phase 2: Live Environment Driving

- Goal: Evaluate the trainee's decision-making and safe driving behavior in a public setting.
- Assessment Mechanism: Objective, real-time monitoring of trainee behavior by the advanced AI system.
- What is Evaluated:
- Response to hazards and interaction with traffic.
- Adherence to safe following distances and speed limits.
- Avoidance of critical errors (e.g., running a red light, dangerous lane changes).
- Success Condition: Maintaining a driving safety score of 95% or higher throughout the duration of the on-road assessment.

TECHNICAL DETAILS OF MODIFIED CAR