KRUTANIC
A LADDER FOR BRIGHTER FUTURE

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✉ **support@krutanic.com**
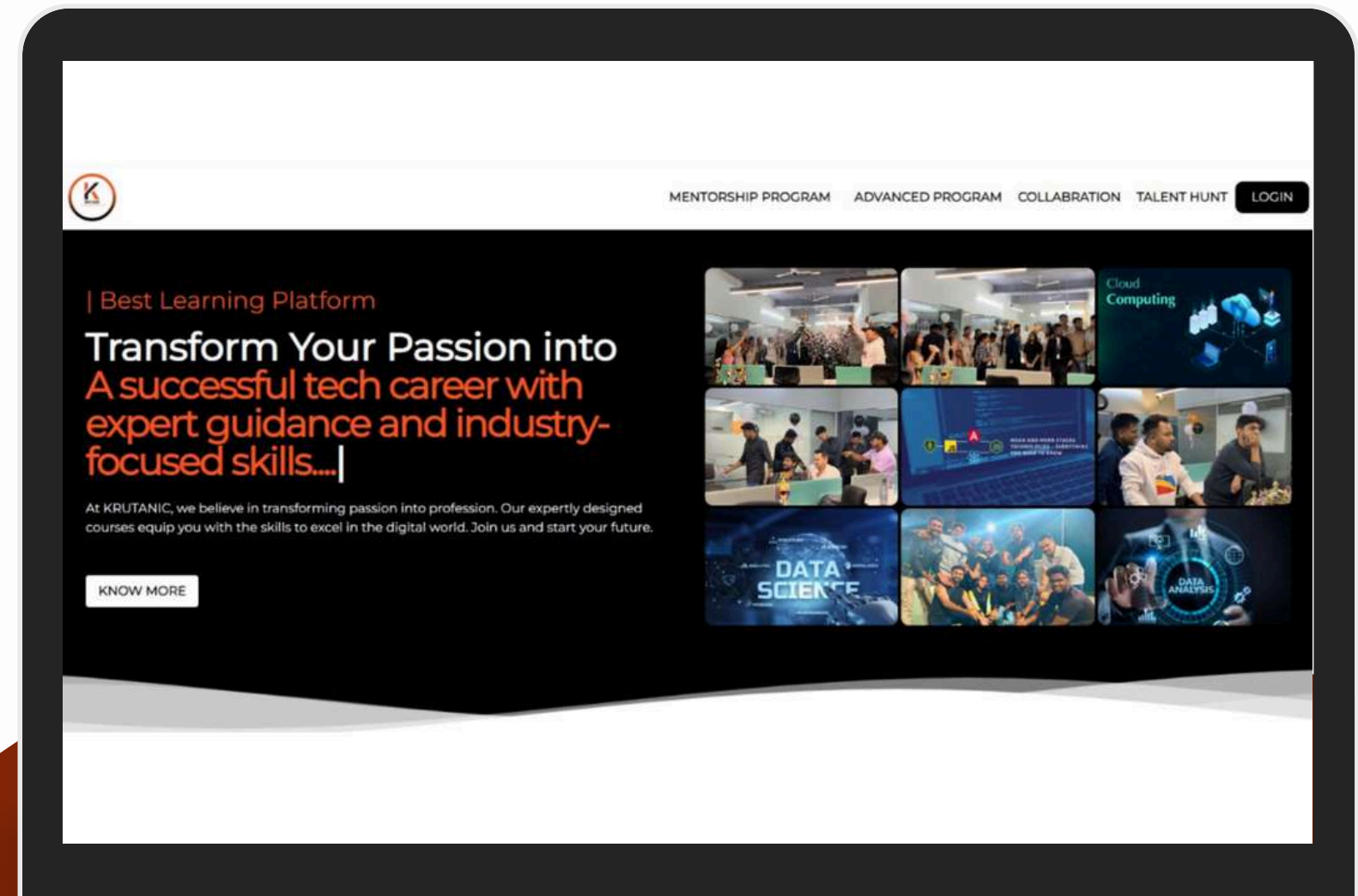
MENTORSHIP PROGRAM   ADVANCED PROGRAM   COLLABRATION   TALENT HUNT   LOGIN

| Best Learning Platform

Transform Your Passion into
A successful tech career with expert guidance and industry-focused skills....|

At KRUTANIC, we believe in transforming passion into profession. Our expertly designed courses equip you with the skills to excel in the digital world. Join us and start your future.

KNOW MORE

Cloud Computing

DATA SCIENCE

DATA ANALYSIS

TRAINING AND INTERNSHIP PROGRAM

About us

"Krutanic Solutions is at the forefront of transforming education through cutting-edge technology. Our comprehensive platform empowers learners with personalized learning experiences, collaborative tools, and real-time analytics. With adaptive assessments and interactive content creation, we enhance student engagement and achievement. Join us in revolutionizing education for the digital age, driving positive outcomes and preparing learners for success in tomorrow's world. "
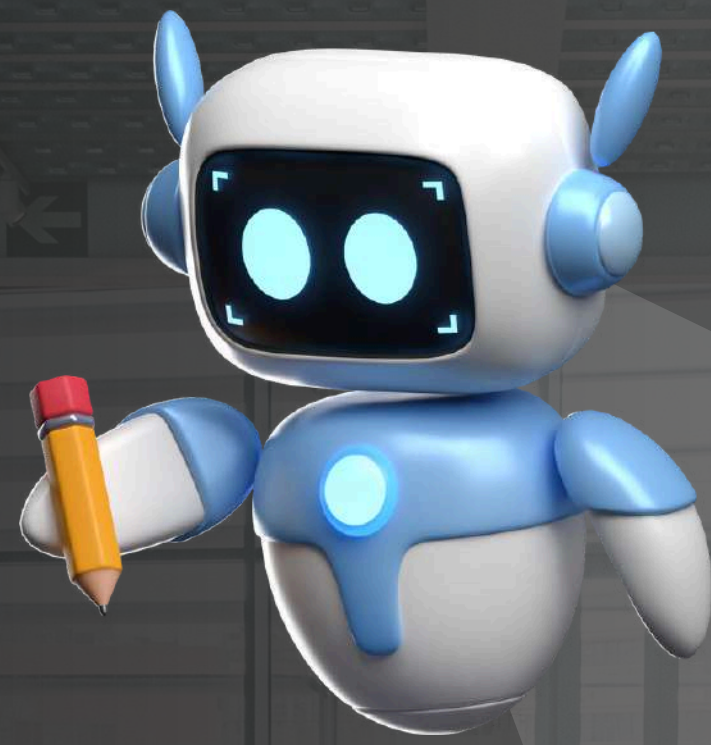
IOT AND ROBOTICS

Why IOT and Robotics?

- IoT and robotics are revolutionizing industries, driving strong demand for skilled professionals across various sectors.

- Roles in IoT and robotics, such as automation engineers, offer competitive salaries due to specialized expertise.

- From smart home devices to industrial automation, IoT and robotics offer vast career possibilities in innovative fields.

- IoT and robotics professionals can work on international projects, often with opportunities for remote collaboration.

- These fields drive advancements in AI, machine learning, and automation, placing you at the forefront of innovation.

- As smart technologies expand, IoT and robotics professionals will enjoy sustained demand and career stability.

1ST MONTH

LIVE SESSIONS

Live sessions with industrial experts having experience above 10 years in the industry.

RECORDINGS

Recordings of all live sessions available with lifelong access in our LMS portal.

INDUSTRY RELATED

Industry related curriculum designed by the working professionals in the top hierarchy.
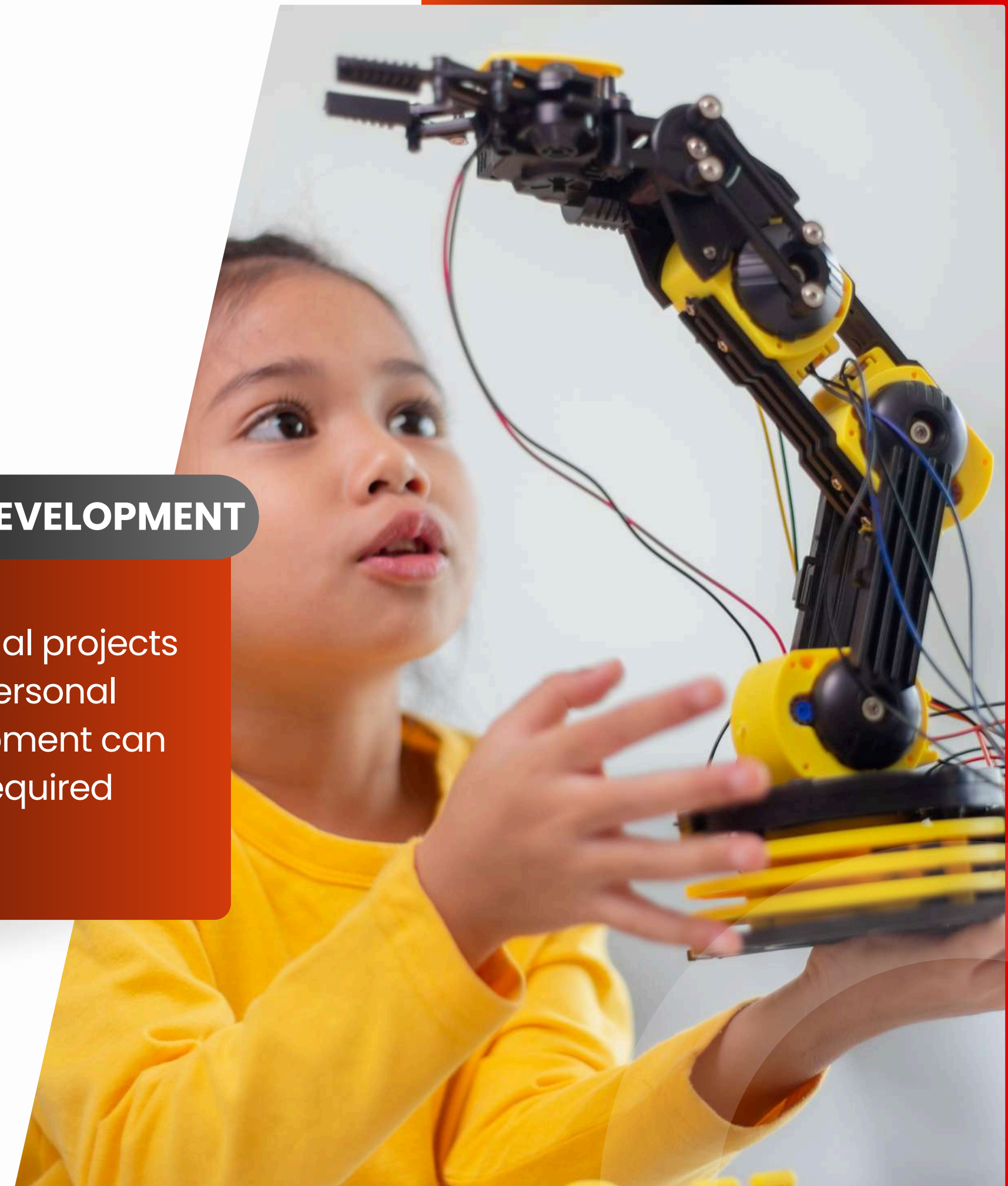
2ND MONTH

REAL TIME PROJECTS

Two real time industrial projects One minor project and One major project

ASSISTANCE

All mentors will be assigned as project leads and guide the intern till the completion of the project

PERSONAL DEVELOPMENT

Additional projects for personal development can be required

Curriculum included

MODULE 1

Introduction to Iot and Robotics Overview of Iot and Robotics concepts and applications Introduction to basic components: sensors, actuators, microcontrollers Hands-on activity: Setting up IoT development environment (Arduino IDE, Raspberry Pi)

MODULE 2

Sensor Integration and Data Acquisition Types of sensors and their applications in IoT and Robotics Interfacing sensors with microcontrollers (Arduino, Raspberry Pi) Hands-on activity: Collecting sensor data and displaying it on a dashboard.

MODULE 3

Wireless Communication and IoT Networking Introduction to wireless communication protocols (Wi-Fi, Bluetooth, Zigbee) Implementing wireless communication in IoT devices Hands on activity: Building a simple IoT network using Wi-Fi or Bluetooth.

Curriculum included

MODULE 4

Introduction to Robotics and Robot Control Basics of robot components and architecture Introduction to robot control systems (open-loop, closed-loop) Hands-on activity: Programming a simple robot movement using Arduino or Raspberry Pi

MODULE 5

Robotics Fundamentals Introduction to robotics and robotic systems Components of robotic systems (actuators, sensors, controllers) Robotic architectures (hierarchical, behavior-based, etc.).

MODULE 6

Robot Kinematics and Dynamics Basics of robot kinematics (forward and inverse kinematics) Robot dynamics and motion control Path planning and trajectory generation for robots

Curriculum included

MODULE 7

Robot Perception and Localization Sensors for robot perception (cameras, lidar, etc.) Sensor fusion techniques for localization and mapping (SLAM) Introduction to robot vision and image processing.

MODULE 8

Robot Control Systems Overview of robot control systems (PID control, feedback control, etc.) Implementing control algorithms for robot motion Case studies of robot control applications.

MODULE 9

Human-Robot Interaction Human-centered design principles for robots Interfaces for human-robot interaction (voice, gesture, touch, etc.) Collaborative robotics and applications in human environments

Discover why this IOT and Robotics course is essential for your learning journey

Google Ratings
4.8 / 5

Mentees Trained
15k +

Hiring Partners
200+

Job Openings
35000+

Average Salary
9+ LPA

Global Size
USD 1.9 Trillion

Certifications

01

Training Completioon Certificate Validates the skills which acquired

02

Internship Completion certificate certified by " WIPRO dice Id "

03

LOR (Letter of recommendation)

04

Certificate of exellence

05
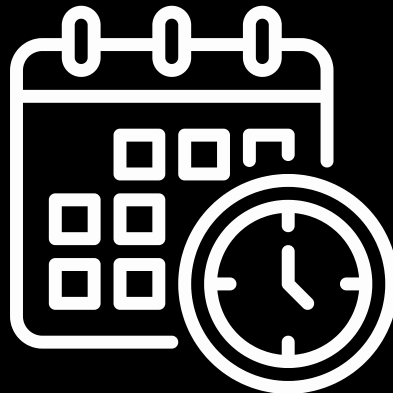
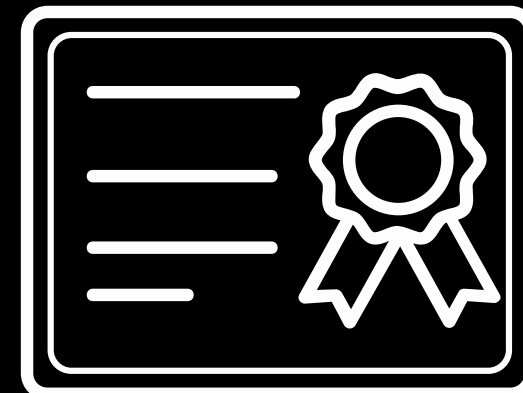Placement Assistance
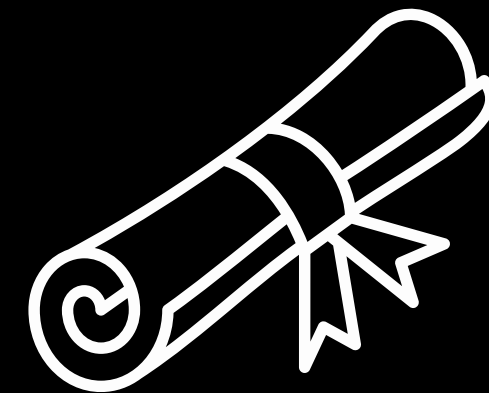
Our process

Quick guide

① **Register with us**

② **Schedule your classes**

③ **Certifications**

④ **Placement assistance**

Program ratings

STUDENTS AVERAGE RATINGS

★★★★⯪

4.85 / 5

Companies where our alumni thrive

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REACH OUT US

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