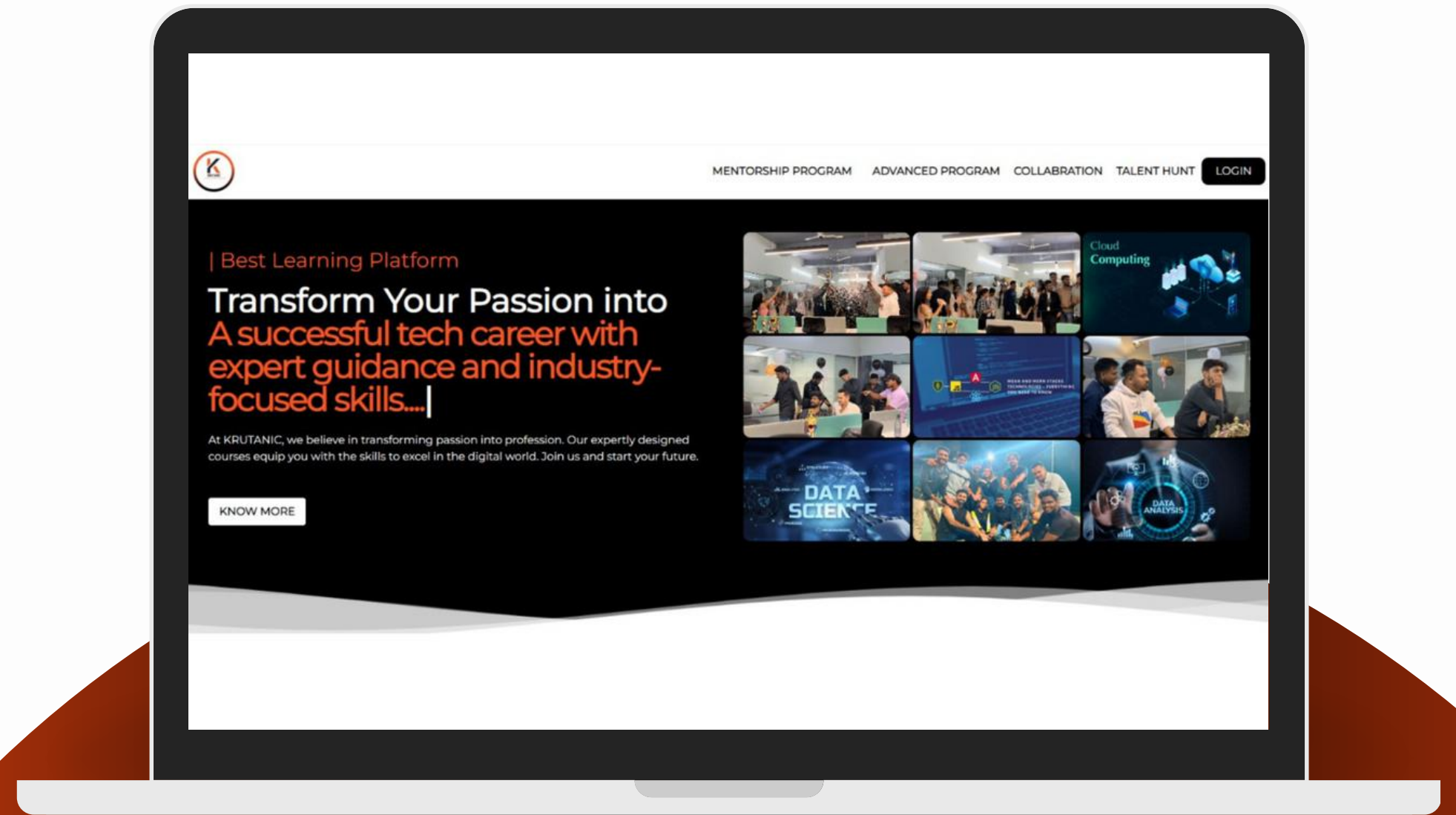




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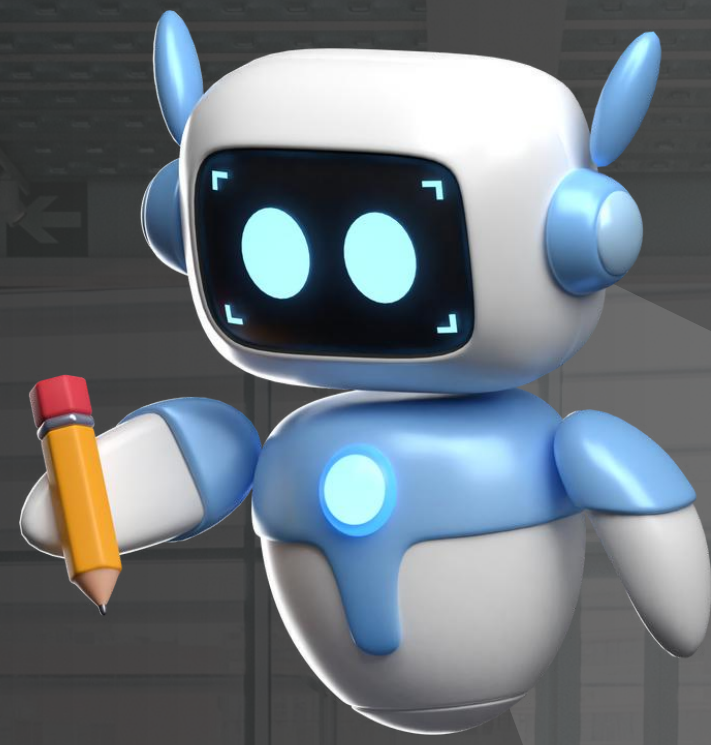
A photograph of three students working on a project at a table. The student in the foreground is a young woman with long brown hair, wearing a green turtleneck sweater, focused on connecting black wires to a small electronic device. Behind her, a student in a yellow sweater is also working, and further back, a student in a red plaid shirt is visible. The table is covered with various electronic components, wires, and tools. The background is slightly blurred, emphasizing the students' hands and the project.

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.



ND 2 MONTH

REAL TIME PROJECTS

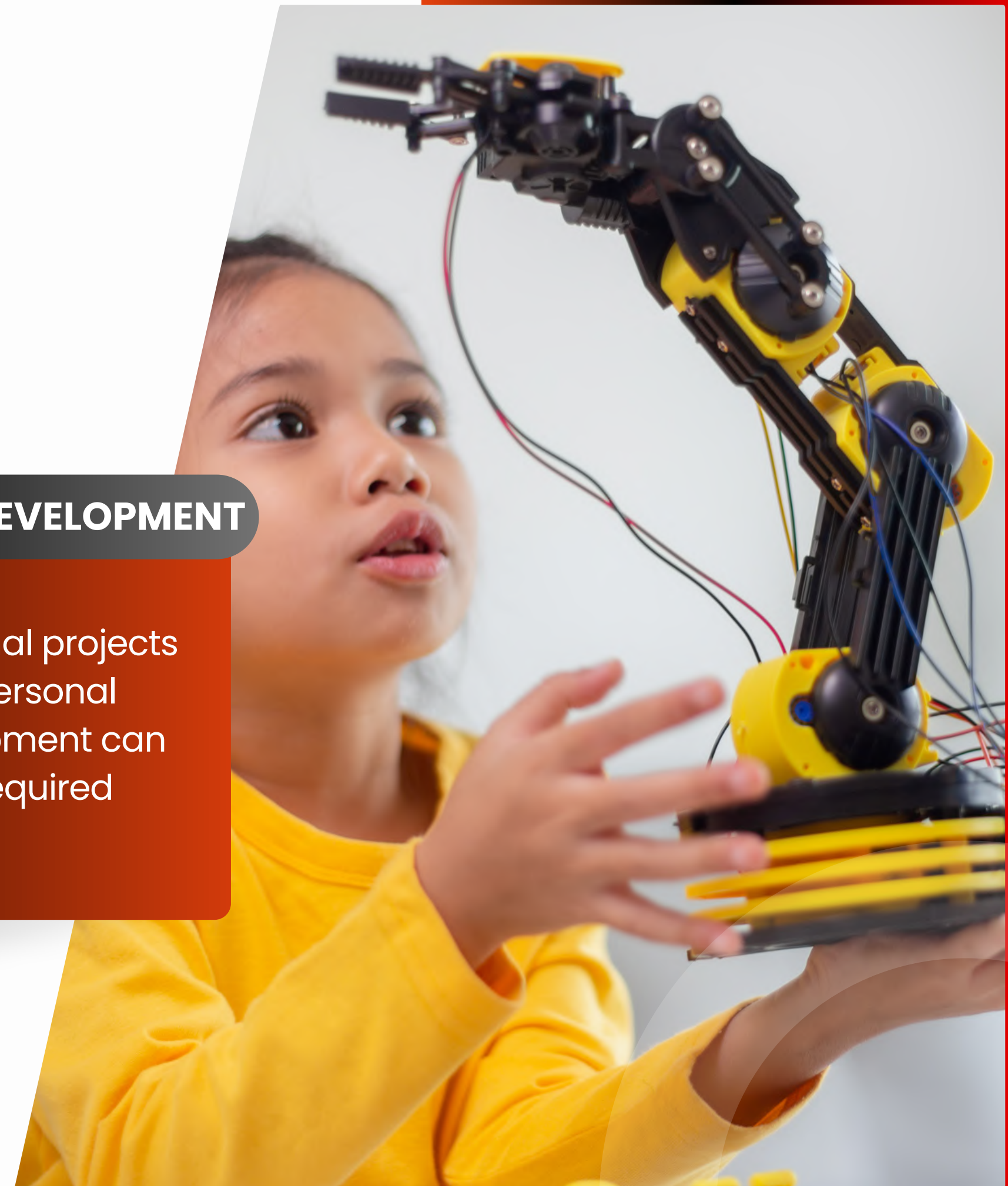
Two real time industrial projects One minor project and One major project

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 Completion
Certificate Validates the
skills which acquired**

02

**Internship Completion
certificate certified by
" WIPRO dice Id "**

03

**LOR (Letter of
recommendation)**

04

Certificate of excellence

05

Placement Assistance

KRUTANIC
DER FOR BRIGHTER

Our process

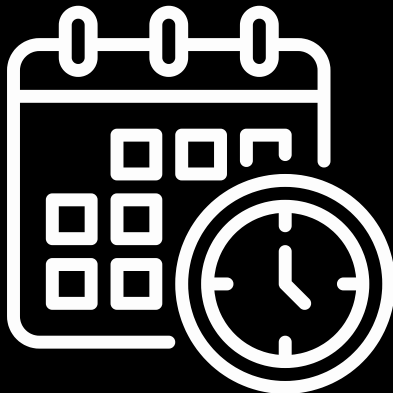
Quick guide

①



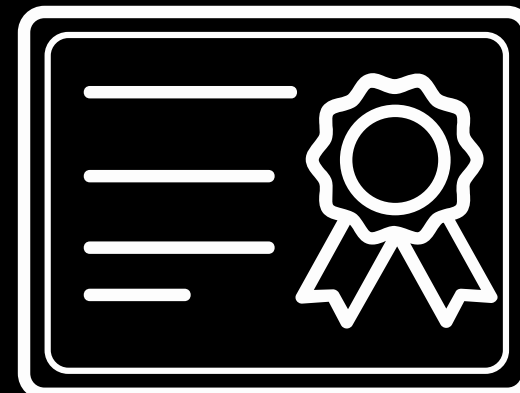
Register with us

②



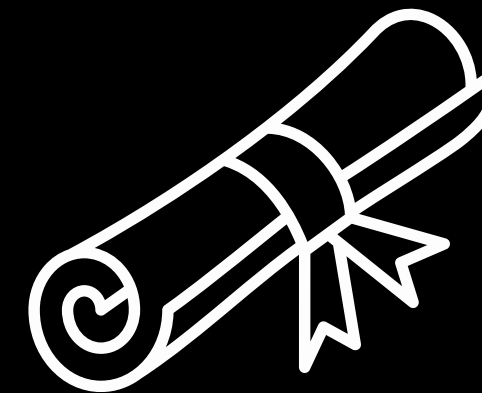
**Schedule your
classes**

③



Certifications

④



**Placement
assistance**

Program ratings



STUDENTS AVERAGE RATINGS



4.85 / 5

Brands where our alumni are





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