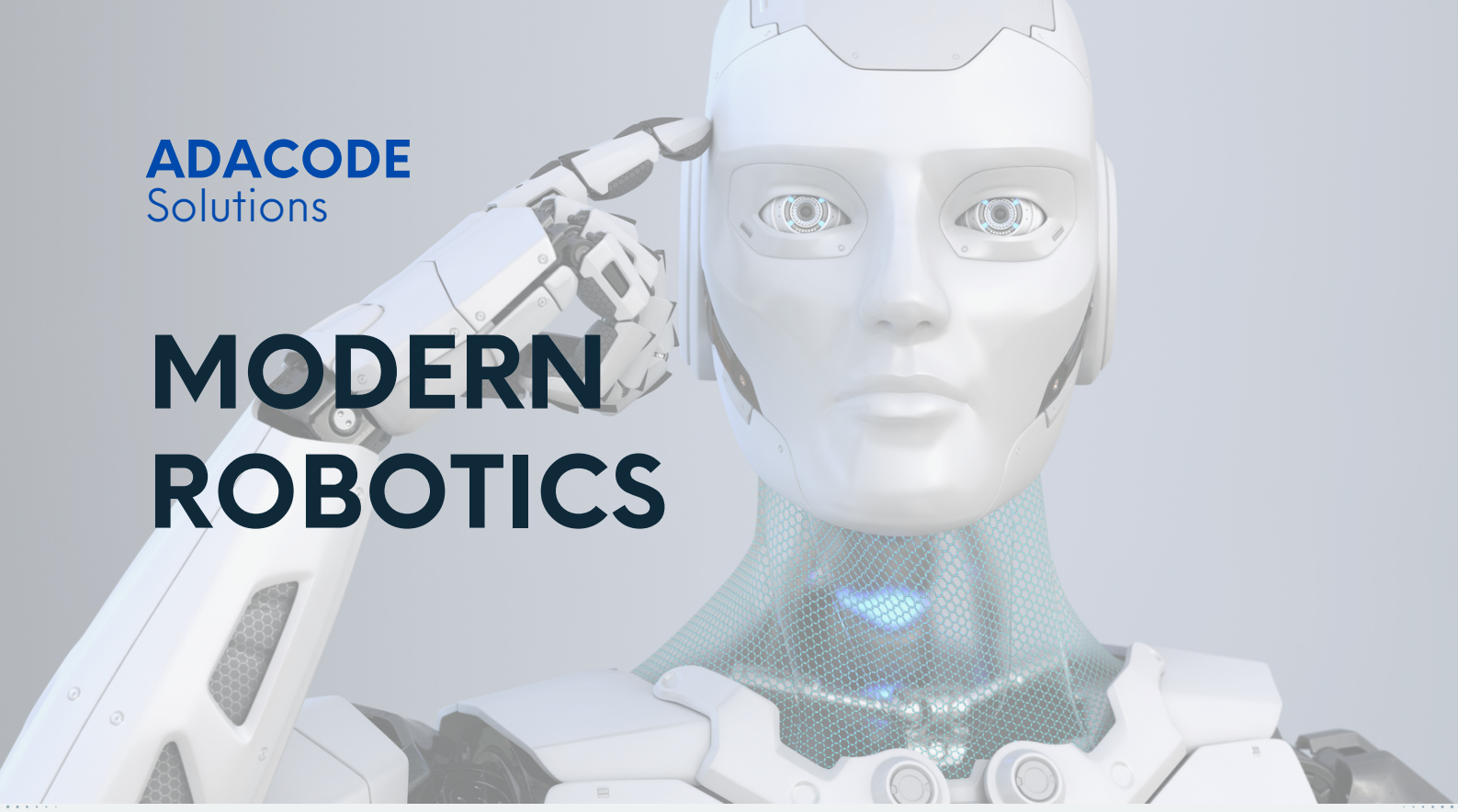

ADACODE
Solutions

MODERN ROBOTICS

About Us

Adacode Solutions excels in innovative software solutions, specializing in IoT, Robotics, Cloud, Data Science, and more. Trust us as your partner for cutting-edge solutions, shaping the future of technology.

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- **Scholarship for Students**
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MODERN ROBOTICS

Who Should Join This Course

- Tech enthusiasts seeking hands-on automation skills
- Professionals in engineering and tech industries.
- Students in technical fields seeking practical skills.

Course Details

Duration: 3 Months

10 Modules

Unlimited Lab Access

Final Project

Project Certificates

Course Certificates

English Training Sessions

Monthly Mock Interview Sessions

IEEE Certified Projects

Course Content

- Introduction to Robotics and AI
- Basics of Programming and Algorithms
- Mathematics for Robotics and AI
- Introduction to AI
- Robotics Fundamentals
- Computer Vision
- Machine Learning in Robotics
- Natural Language Processing (NLP) and AI
- Robotics and AI Ethics
- Project Work

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MODERN ROBOTICS

Syllabus

Module 1: Introduction to Robotics and AI

- Overview of Robotics and AI
- Historical perspective
- Importance and applications

Module 2: Basics of Programming and Algorithms

- Introduction to programming languages (Python, C++)
- Basic algorithms and data structures
- Problem-solving techniques

Module 3: Mathematics for Robotics and AI

- Linear algebra
- Calculus
- Probability and statistics

Module 4: Introduction to AI

- Machine Learning basics
- Types of learning algorithms
- Supervised and Unsupervised Learning

Module 5: Robotics Fundamentals

- Robot anatomy and kinematics
- Sensors and actuators
- Robot programming

Module 6: Computer Vision

- Image processing fundamentals
- Object detection and recognition
- Applications in robotics

Module 7: Machine Learning in Robotics

- Reinforcement learning
- Neural networks and deep learning
- Case studies in robotic applications

Module 8: Natural Language Processing (NLP) and AI

- Basics of NLP
- AI-driven language models
- Conversational AI

Module 9: Robotics and AI Ethics

- Ethical considerations in AI and robotics
- Bias and fairness
- Responsible AI practices

Module 10: Project Work

- Practical application of learned concepts
- Group projects on robotics and AI
- Presentations and discussions

Assessment and Certification

- Final exams
- Project evaluations
- Course completion certificates

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