



Softcrayons

# Artificial Intelligence

*Empowering minds  
shaping futures*





# PROFESSIONAL CERTIFICATION IN

# ARTIFICIAL INTELLIGENCE



## PROSPECTUS





# Key Advantages of Choosing Softcrayons

## FOR STUDENTS

**Supplemental Learning Resources:** Softcrayons offers offline and online courses, educational materials, and additional resources that can complement and enhance college students' learning.

**Skill Development:** Softcrayons offer courses and certifications focused on developing specific skills that are in high demand in the job market.

**Career Exploration:** Softcrayons offer a wide range of courses across various disciplines, enabling college students to explore different fields and potential career paths.

**Industry Relevance:** Softcrayons frequently collaborates with industry professionals and experts to ensure that the knowledge and skills imparted are relevant and aligned with current industry practices and trends.

## FOR FREELANCER & JOB SEEKER

**Flexibility:** Softcrayons offers online courses and programs that can be accessed from anywhere.

**Skill Development:** To acquire in-demand skills according to the latest industry trends and technologies to stay competitive in the job market.



# Key Advantages of Choosing Softcrayons

**Certifications:** Softcrayons provides you with Professional Certifications and helps you with Resume Enhancement.

**Career Support:** Softcrayons also offers career counseling and job placement assistance, which can be invaluable for freelancers seeking new projects or job seekers looking for employment.

## FOR ENTREPRENEURS AND BUSINESS OWNER

**Upskilling and Reskilling:** As the business landscape evolves rapidly, Softcrayons ensure that you stay up-to-date with the latest trends, technologies, and best practices.

**Flexible Learning:** Online courses offered by Softcrayons allow you to learn at your own pace, fitting your studies around your busy schedules.

**Entrepreneurial Skills Development:** Softcrayons offers courses and programs specifically designed to help entrepreneurs develop essential skills.

**Cost-effective:** Softcrayons provides more affordable learning options that help you invest in your professional development without straining your budget.



# About The Program

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This course provides an overview of the field of Artificial Intelligence, covering fundamental concepts, techniques, and applications. Students will learn about the history and philosophical implications of AI, as well as the mathematical and computational foundations underlying intelligent systems. The course will cover various AI problem domains, algorithms, and state-of-the-art approaches.

## Course Objectives:

1. Understand the history, goals, and philosophical implications of Artificial Intelligence.
2. Grasp the fundamental concepts and techniques used in AI, including knowledge representation, reasoning, problem-solving, and machine learning.
3. Apply AI algorithms and techniques to solve practical problems in various domains.
4. Appreciate the current state-of-the-art in AI and its real-world applications.
5. Critically evaluate the strengths, limitations, and ethical considerations of AI systems.





# ARTIFICIAL INTELLIGENCE

## TRAINING CURRICULUM

### 1 Introduction to Artificial Intelligence

- Definition and goals of AI
- Brief history of AI
- AI vs. human intelligence
- Applications and impact of AI

### 2 Intelligent Agents

- Agents and environments
- Rational agent design
- Problem-solving agents
- Agent architectures (reactive, deliberative, hybrid)

### 3 Knowledge Representation and Reasoning

- Propositional and predicate logic
- Semantic networks and ontologies
- Rule-based systems and expert systems
- Uncertainty and probabilistic reasoning

### 4 Search and Problem-Solving

- Problem-solving strategies
- Uninformed search (breadth-first, depth-first, iterative deepening)
- Informed search (greedy, A\*, heuristics)
- Constraint satisfaction problems

### 5 Machine Learning



- Supervised learning (decision trees, naive Bayes, neural networks)
- Unsupervised learning (clustering, dimensionality reduction)
- Reinforcement learning (Q-learning, policy gradients)
- Deep learning and neural network architectures

## 6 Natural Language Processing

- Language models and text generation
- Information extraction and text classification
- Dialogue systems and question answering
- Machine translation

## 7 Computer Vision and Robotics

- Image processing and feature extraction
- Object recognition and tracking
- Motion planning and control
- Simultaneous localization and mapping (SLAM)
- Robot architectures and control
- Path planning and navigation
- Perception and sensor processing
- Robot learning and adaptation

## 8 Planning and Decision Making

- Classical planning techniques
- Decision theory and utility functions
- Multi-agent planning and coordination
- Game theory and adversarial decision making

## 9 Philosophical and Ethical Implications

- Can machines think?
- The Turing test and the Chinese room argument
- AI safety and control
- Ethical considerations and societal impact



# 10 Advanced AI Topics

- Expert systems
- Multi-agent systems
- Neural networks and deep learning
- Evolutionary computation
- Recent advances in AI (current as of course offering)

This syllabus provides a comprehensive introduction to AI, covering its theoretical foundations, algorithms, techniques, and applications across various domains. It aims to equip students with a solid understanding of AI concepts and practical skills for solving AI-related problems.

 SOFTCRAYONS®



# PLACEMENT COMPANIES





# Testimonials of Students



**Sukhpreet Kaur**

2 reviews

★★★★★ 2 weeks ago **NEW**

Hlo mam I'm Sukhpreet your Softcrayons tarining institute in student my training is digital marketing course 😊 I'm very becoz I'm digital marketing beginner but my experience to much becoz my trainer is very intelligent and supportive and nature is very friendly 😊



**Manish Malik**

1 review

★★★★★ 2 weeks ago **NEW**

I'm new student in softcrayons my starting classes all gud my softcrayons experience to much better becoz my trainer is very experienced



**Aman Bhardwaj**

2 reviews

★★★★★ 5 months ago

I am Aman Bhardwaj, Recently I completed a Digital Marketing course from Softcrayons. After completing my course I got a placement at SNVA Ventures with a good salary package. If you want to do a course and boost your career in the Digital Marketing field. I will recommend you visit Softcrayons. If I talk about the environment and faculty then Softcrayons have a very good and friendly environment and their faculty is highly experienced in the Digital Marketing field. Specifically, Yashvant sir is one of the best trainer and they have great experience in the Digital Marketing field. Thank you Softcrayons and all staff who helped me boost my career in the Digital Marketing field.



**Shivam Sharma**

1 review

★★★★★ 2 months ago

I got the chance to study with the best teacher and they provided me a good career guidance. a veryb great place to learn programming and start your career.



**Lalita Tiwari**

1 review

★★★★★ 5 months ago

I hearded about softcrayons through friends and I enroll myself here, and done my course. I suggest you all to join softcrayons. Hope you do great.



**Tanish Chandrawal**

5 reviews

★★★★★ 5 months ago

It is good institute, practical oriented practice is very good. This institute is very useful for graduate students to make carrier in IT. 100% job guarantee is available for all students. Very good Institute for Cloud Computing like Azure, AWS, GCP.



**Aman Vishwakarma**

2 reviews

★★★★★ 2 months ago

Hie guys I'm aman softcrayons institute students for AutoCAD.. softcrayons institute is best training institute sarfaraz sir is best teacher for softcrayons. And best institute softcrayons





# SOFTCRAYONS®



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