



COZMEK PVT LTD
unlock the power of Ai

Professional
Certificate Program in 8 Months

**ARTIFICIAL INTELLIGENCE &
MACHINE LEARNING COURSE**

ABOUT US

Cozmek Private Limited, an AI-based research and development company headquartered in Kerala, India. we can make a significant impact in advancing AI education and research in India, thereby contributing to the growth of our nation's AI ecosystem.



WHY CHOOSE AI

People choose AI for its transformative potential, empowering capabilities, and capacity to drive innovation, efficiency, and progress across various domains, including enhancing customer experiences, gaining competitive advantage, saving costs through automation, fostering creativity and innovation, and addressing pressing societal challenges, ultimately revolutionizing industries and shaping the future of human endeavors.



\$160,000

is the average base salary of
a AI Engineer in the U.S

11 MILLION JOBS IN 2026

Expert analysts foresee that the country
will witness over 11 million job vacancies in
the AI, DS, and ML fields by 2026.

1. MENTORING

**2. PRACTICAL
SESSION**

**3. LIVE DOUBT
CLEARING
SESSION**

**4. LIVE AND
RECORD
SESSION**

**5. AI & ML
PROJECTS**

6. **100%
PLACEMENT
ASSISTANCE**

OUR CERTIFICATIONS



The American Board is dedicated to preparing, certifying, and supporting individuals who want to improve their communities by becoming a teacher. The training and certification program is designed to inspire career changers to become a teacher and give them a rigorous and efficient process to achieve their goals.



The Cozmek Rank Board Certification (CRBC) by COZMEk Pvt Ltd, Kerala's leading AI company, honors exceptional AI expertise and innovation, ensuring high standards and ethical practices. It enhances recognition, career prospects, and connects professionals with industry leaders.

SYLLABUS

1. PYTHON INTERMEDIATE

- Introduction to IDE, Google Colab
- Python Indentation, Print Statement, Python Comments
- Python Variables, Arithmetic Operations
- Artificial Intelligence and Machine Learning Comparison
- F String, Data Types, Variable Swapping| Python
- Python String, Indexing, Slicing
- Python List, Nested List
- Tuple
- Python Dictionary, len Function
- Input statement, String Concatenation, Type casting, Eval()
- If, if else, Nested if else, Elif
- While loop, Nested while, Infinity Loop Error
- For loop, Nested for loop, Range function
- Break, Continue, Pass
- Python for else
- Python Function

2. PYTHON ADVANCED

- Python *args, **kwargs, Global variable, Local variable
- Python Lambda, Filter, Map, Reduce
- Decorators
- Recursion
- Object Oriented Programming (OOPS)
- Python Class, Class Variables
- Inheritance
- Constructor Inheritance
- Polymorphism
- Operator Overloading
- Method Overloading and Method Overriding
- Exception handling

DATASCIENCE AND MACHINE LEARNING

3. INTRODUCTION TO MACHINE LEARNING AND DATA SCIENCE

- ML Introduction
- Pandas
- Data Analysis using Pandas
- Numpy
- Exploratory data analysis

- Feature Engineering
- Machine Learning Introduction
- Linear Regression

4. MACHINE LEARNING AND DATA SCIENCE CONTINUATION

- Ridge lasso Regression
- Naive Bayes Algorithm
- Decision Tree Classification
- Random Forest, SVM
- Adabost
- Gradient Boosting
- Clustering
- Logistic Regression
- KNN

5. MACHINE LEARNING AND DATA SCIENCE PROJECTS

- Movie Recommender System Movielens Dataset
- House Pricing Prediction Project
- Loan Eligibility Prediction
- Customer Churn Prediction
- Ola Bike Ride Request Demand Forecast
- Survival Prediction on the Titanic Ship

A minimum of three projects will be explained, with the number of projects covered dependent on the availability of time and the interests of the students. Additionally, the list of projects is not exhaustive, and other project topics can also be included based on new advancements in the field and the student's interests.

1. DEEP LEARNING AND CORE AI

- **ML Introduction**
- **Neural Network Training**
- **Activation Function**
- **Cost Function**
- **Handwritten digits recognition**
- **Computer Vision**
- **Multi-Layer Neural Networks**
- **CNNs**
- **RNNs**
- **LSTM Networks**
- **NLP**

1. AI AND DEEP LEARNING PROJECTS

- **Facial Recognition Application**
- **Helmet Detection**
- **Fashion Apparel Detection**
- **Automatic Number Plate Detection**
- **Plant Diseases Detection**
- **Skin Cancer Detection**
- **Face Mask Detection**
- **DeepFake Detection**
- **Custom Object Detection**
- **Recommender System**

A minimum of two projects will be explained, with the number of projects covered dependent on the availability of time and the interests of the students. Additionally, the list of projects is not exhaustive, and other project topics can also be included based on new advancements in the field and the student's interests.

CO-PARTNERS



ADD-ON INSTITUTIONS



ILAHIA COLLEGE
of Arts and Science



ST. JOSEPH'S COLLEGE MOOLAMATTOM
Arakulam - Thodupuzha 685 591
A College Under the CMI Management Affiliated to M.G University
Re-Accredited by NAAC With A Grade

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POWER OF AI**