



ARTIFICIAL INTELLIGENCE

Live Online Certification: Journey from
Fundamentals to Advanced Mastery

AI

MASTERCLASS

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EFFYIES SMART TECHNOLOGIES

CONTACT: 6238127267

ENROLL

COURSE CONTENT

- **Introduction to AI, ML, and Data Science:** A brief historical overview followed by current trends and applications.
- **Python Programming:** Start with basics and gradually move to advanced libraries like NumPy, Pandas, Matplotlib, and Seaborn.
- **Machine Learning Algorithms:** Cover the spectrum from simple linear regression to more complex algorithms like random forests and SVMs.
- **Specialized AI Fields:** Introduce areas like computer vision, NLP, and reinforcement learning towards the latter part of the course.
- **Project Work:** Encourage projects that require a combination of the techniques learned.

COURSE DURATION

- **Duration:** 8 weeks, 48 sessions
- **Timing:** 8:00 PM - 9:00 PM IST (Monday to Saturday)

CERTIFICATION

- Certificate from Effyies Smart Technologies.
- Guidance for IABAC certification exam.
- Opportunities for internship with Effyies Smart Technologies.

COURSE PLAN

Week 1: Introduction to AI, ML, and Data Science

- Session 1-2: Introduction to AI, ML, and Data Science
 - History and evolution
 - Key concepts and differences
- Session 3-4: Introduction to Python Programming
 - Basics: variables, data types, operators
- Session 5-6: Python Control Structures
 - Conditional statements, loops
 - Basic data structures

Week 2: Python for Data Science

- Session 7-8: NumPy and Pandas
 - Array operations, DataFrame
- Session 9-10: Data Visualization
 - Matplotlib and Seaborn basics
 - Simple plots and charts
- Session 11-12: Intermediate Python
 - Functions and modules

Week 3: Machine Learning

- Session 13-14: Overview of ML Algorithms
 - Types of ML: Supervised, Unsupervised, Reinforcement
- Session 15-16: Linear Regression
 - Implementing and understanding linear regression
- Session 17-18: Logistic Regression and Classification
 - Binary classification, logistic regression model

Week 4: Machine Learning Algorithms

- Session 19-20: Decision Trees and Random Forest
 - Theory and implementation
- Session 21-22: KNN and SVM
 - Algorithm theory and use cases
- Session 23-24: Feature Engineering
 - Techniques and selection criteria

Week 5: Advanced Machine Learning and Evaluation

- Session 25-26: Deep Dive into SVM and KNN
 - Advanced concepts and practical examples
- Session 27-28: Evaluation Metrics and Techniques
 - Confusion matrix, precision, recall, F1-score
- Session 29-30: Project Planning
 - Dataset selection, problem definition

Week 6: Project-Based Learning

- Session 31-34: Guided Project Work
 - Applying algorithms, feature implementation
- Session 35-36: Project Development
 - Model tuning, troubleshooting

Week 7: Special Topics in AI

- Session 37-38: Introduction to Computer Vision
 - Basic concepts and applications
- Session 39-40: Introduction to NLP
 - Text processing, simple NLP tasks
- Session 41-42: Reinforcement Learning Overview
 - Key principles and examples

Week 8: Finalization, Certification, and Review

- Session 43-44: AI Tools and Portfolio Development
 - Introduction to tools like ChatGPT
 - Portfolio creation guidance
- Session 45-46: Course Review and Exam Preparation
 - Key concept recap, IABAC exam preparation
- Session 47-48: Final Assessment and Project Presentation
 - Comprehensive quiz
 - Project presentation and evaluation

INSTRUCTORS



- **Achshah R M:**

- CEO of Effyies Smart Technologies,
- Bachelor in Applied AI from IU University, Germany,
- IABAC Certified Data Scientist.



- **Dr. Ruban Deva Prakash:**

- B.E and M.E in Electrical,
- MCA, Ph.D and Postdoctorate in AI,
- Managing Director of Effyies Smart Technologies,
- 25+ Years of experience in teaching.

COURSE FEE

- **Original Price:** INR 10,500/-

- **Special offer:** INR 5,250/-



Enroll

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