

Get Certified As Artificial Intelligence Master Analyst

**IN ADDITION, GET CERTIFIED BY IBM AS
“ARTIFICIAL INTELLIGENCE ANALYST”
AND RECEIVE A DIGITAL BADGE**



Future-proof yourself with AI & ML course designed and delivered by IIT Faculty and IBM professionals.

“Salaries up to \$500k a year: Silicon Valley rolls out red carpet for AI specialists”

– New York Times

Fast-forward your Career with market-relevant
AI Courses from the best in the Industry

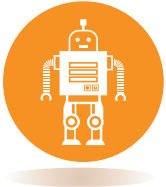
ATIVITTI in association with IIT & IBM

Offers training in Python Programming, Machine Learning, Artificial Intelligence, IBM Watson, Natural Language Processing, Computer Vision & Chatbots along with live Projects leading to IIT Certification as

“ARTIFICIAL INTELLIGENCE MASTER ANALYST”



Line-up for rewarding careers in emerging technologies and become experts with IIT & IBM to gain knowledge, practical know-how to solve complex business problems.



Ativitti is uniquely positioned to offer world class courses in partnership with leading Industry leaders in Artificial Intelligence e.g. IBM, NVidia, Microsoft, Google etc. and premier institutes like IITs with focus on Data Science & Machine Learning.

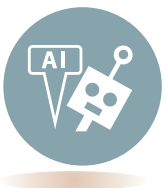


Ativitti has established “Centre of Excellence” for Artificial Intelligence & Robotics and will continue to establish many such COEs in collaboration with academia and industry across the country.

We aspire to extend the research facilities to learners for projects and Internships thereby creating an environment to encourage entrepreneurship.



Ativitti Interactive Digital Learning Platform ensures par excellence, quality education anytime in pervasive environment.



This **IIT & IBM** Certified course is focused on building industry-ready “Artificial Intelligence Analyst” & “Data Scientist” who can work on machine learning, data mining, and statistical modelling for predictive and prescriptive enterprise analytics. This program will enable you to develop deep understanding and experience with machine learning and data analysis. Familiarity with common tools for data management and analysis including machine learning can be applied on real world problems for building predictive models using machine learning on your own.



10
MODULES

55
INSTRUCTION
SESSIONS

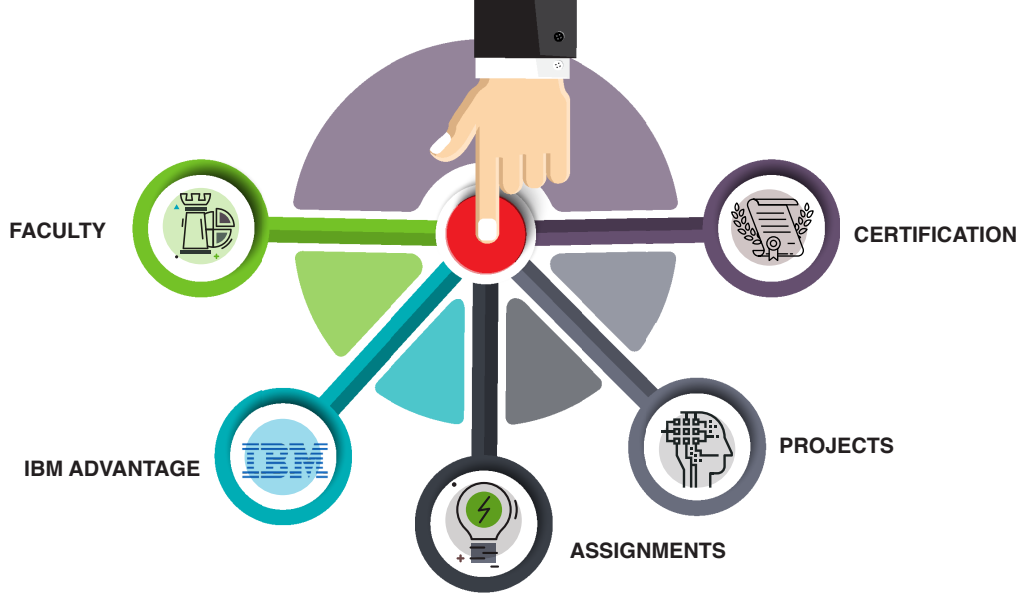
15
SOLVING
ASSIGNMENT

2
INDUSTRY
PROJECTS

6 Months
Projects,
2 hours
per session
twice a
week



FLAUNT YOUR IBM BADGE ON RESUME, SOCIAL NETWORKING SITES AND YOUR SIGNATURE



Program Highlights

Especially developed in collaboration with academia & AI Industry experts to reskill and retool working professionals towards Artificial Intelligence space, this program offers the following benefits:

Experienced Faculty-Led Sessions:

Live-Tutored classes (not recorded sessions). Program content & structure designed in collaboration with IIT faculty and IBM experts.

IBM Advantage: Real-life Case: Live project based on any of the selected use cases, involving implementation of Python providing hands-on exposure

Assignments: Each class has practical assignments which shall be finished before the next class and helps you to apply the concepts taught during the class.

Industry Projects: Access to LMS. You get access to Learning Management System (LMS) where presentations, quizzes, installation guide & class recordings are there.

24 x 7 Expert Online Support team to resolve all your technical queries



Course Delivery Methodology

The primary method of instruction is virtual instructor led training lectures by eminent faculty & industry professionals. These Live-Tutored sessions and not recorded sessions will be beamed online via internet to participant's desktop/laptop or classrooms. All enrolled participant's will also be provided access to other learning aids, reference materials, assessments and hands on workshops as appropriate. Throughout the duration of the course, students will have the flexibility to reach out to the faculty, real time during the LIVE lectures or offline to raise questions and clear their queries.

At the end of the course students will also be allocated Project work that is designed to provide adequate practical and hands on experience in implementing the concepts learn during the course.

There are many advantages to students in using this approach, as it allows them to:

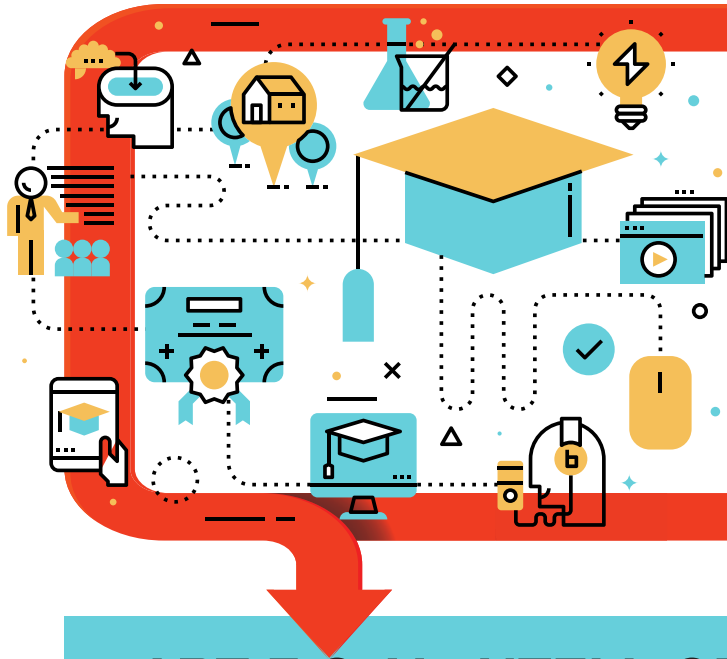
- Develop transferable skills and enhance their employability
- Improve communication and team working
- Practice research and information processing
- Develop Machine Learning analytical skills

CERTIFICATION

IIT (ISM) certifies you as a 'Artificial Intelligence Master Analyst' based on your project performance, reviewed by our expert panel.

IBM Pearson VUE testing to be certified as "Artificial Intelligence Analyst"





Program Content

Artificial Intelligence Master Analyst is organized in Ten modules over 6 months. The course is divided into three main parts

- Introduction to Python, Data Visualization & statistics with hands on lab sessions..
- Building predictive models & introduction to latest tools/ technologies for solving real-life problems.
- IBM Watson, it's services on cloud, Hands-on NLP experience and case studies, building Chat-bots and Computer vision & image classification

ARTIFICIAL INTELLIGENCE MASTER ANALYST

1 Intro to Ativitti Platform & Computer Configuration

2 Introduction to AI

Rise of Artificial Intelligence

3 Python Programming Basics

Introduction to Python Programming

Packages in Python

Data Types and Operations

Statements and Syntax in Python

File Operations

Database Connection

Industry Talk

4 Data, Knowledge and Machine Learning with Python

- ✓ Introduction to Machine Learning & Artificial Intelligence
- ✓ Building Intelligent Machines to Transform Data into Knowledge
- ✓ Applications of AI
- ✓ Data Pre-processing
- ✓ Dealing with Missing Data
- ✓ Handling Categorical Data
- ✓ Data Normalization
- ✓ Data Visualization
- ✓ Probability Theory
- ✓ Probabilistic Learning in Python
- ✓ Probability Distribution
- ✓ The Naive Bayes Algorithm
- ✓ Industry Talk
- ✓ Statistical Analysis
- ✓ Unsupervised Learning
- ✓ Hierarchical Clustering
- ✓ K means Clustering
- ✓ Self Organizing Maps
- ✓ Practical Learning
- ✓ Supervised Learning & Classification
- ✓ Naïve Bayes Classifier
- ✓ Regression Analysis
- ✓ K Nearest Neighbour Algorithm
- ✓ Artificial Neural Network

✓ Support Vector Machine

✓ Reinforcement Learning

✓ Exercise Using Python

✓ Deep Learning in Python

✓ Convolutional Neural Network

✓ Multilayer Neural Network

✓ Industry Talk

5 Artificial Intelligence with Python

✓ Logic Programming

✓ Heuristic Search

✓ Building Games with AI

✓ Industry Talk

6 IBM Watson

✓ Unit 1. Introduction to IBM Watson

✓ Unit 2. Evolution from Deepqa to Watson Services on IBM cloud

✓ Unit 3. Build with Watson

Exercise 1. Exploring Watson Services with Watson API Explorer

7 Natural Language Processing

✓ Unit 1. Introduction to Natural Language Processing

✓ Unit 2. Pipeline and Concepts

✓ Unit 3. NLP and IBM Watson

Exercise 1. Ingest, Convert, Enrich, and Query with Watson Discovery Service

8 Chatbots

✓ Unit 1. Introduction to Chatbots

✓ unit 2. Chatbot Fundamentals

✓ unit 3. IBM Watson Conversation Service

Exercise 1. Getting Started with Watson Conversation Services

9 Computer Vision

✓ Unit 1. Introduction to Computer Vision

✓ Unit 2. Computer Vision Fundamentals

✓ Unit 3. IBM Watson Visual Recognition Service

Exercise 1. Classifying Images with Watson Visual Recognition

10 Industry Projects

✓ 2 Industry Projects

Faculty



**DR. SUSANTA
MUKHOPADHYAY**

Associate Professor
Department of Computer
Science and Engineering,
Indian Institute of Technology
(ISM) Dhanbad



DR. DEEPTI

She is an enthusiastic Data Scientist with 16 years of experience in teaching, research & consultancy and holds Ph.D. in machine learning based data analysis from IIT (Roorkee). Currently, she resides in Silicon Valley, California, USA and provides Data Scientist related consultancy services.



SOUMYA PRASADA

She is a Cognitive Engineer in IBM Watson Lab Services India. In this role, she has been involved in developing Watson solutions for customers in Insurance and financial sector across geographies. She has over 17 years of industry experience, worked with world's largest retailer's implementing IBM order management. She has been a speaker in various International customer conferences, conducting bootcamps, University relations and workshops.



DR. DIPANKAR RAY

System Programmer, Indian Institute of Technology (ISM) Dhanbad



DR. SUBHASHIS CHATTERJEE

Associate Professor, Department of Applied Mathematics, Indian Institute of Technology (ISM) Dhanbad



DR. A. K. SINHA

He holds Ph.D degree in Systems Modeling from IIT Delhi and B.Sc. Engineering from Bihar University. He has 35 years of teaching, research and consultancy experience. Guided 7 Ph.D and more than 30 M.Tech scholars



LALIT AGARWALLA

He is Technology Specialist, in Delivery Services for Watson AI and Cloud Platform at IBM India Pvt. Ltd. He has over 14 years of experience with 5 years in AI domain. He has performed diverse roles including Developer, Solution Architect, Consultant and Technology Specialist. He has delivered AI projects across geographic implementing various Watson AI and cloud based solutions. He has conducted multiple enablement sessions on Watson for customers like HCL, Wipro, Concentrix, EXL Services. He has 7 filed patents in the area of AI and 2 published disclosures.



Program Details

Duration

Approx. 6 months;
2 hours per session
twice a week



HOW TO APPLY

For admissions, students can register at our website: www.ativitti.ai/admissions

Address for Communication

Ativitti AI Technologies Pvt. Ltd,
IIT (ISM) Centre, 4th Floor,
Unit # 401, NBCC Centre, Plot # 2,
Okhla Phase -1, New Delhi 110020

For any enquiry,

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