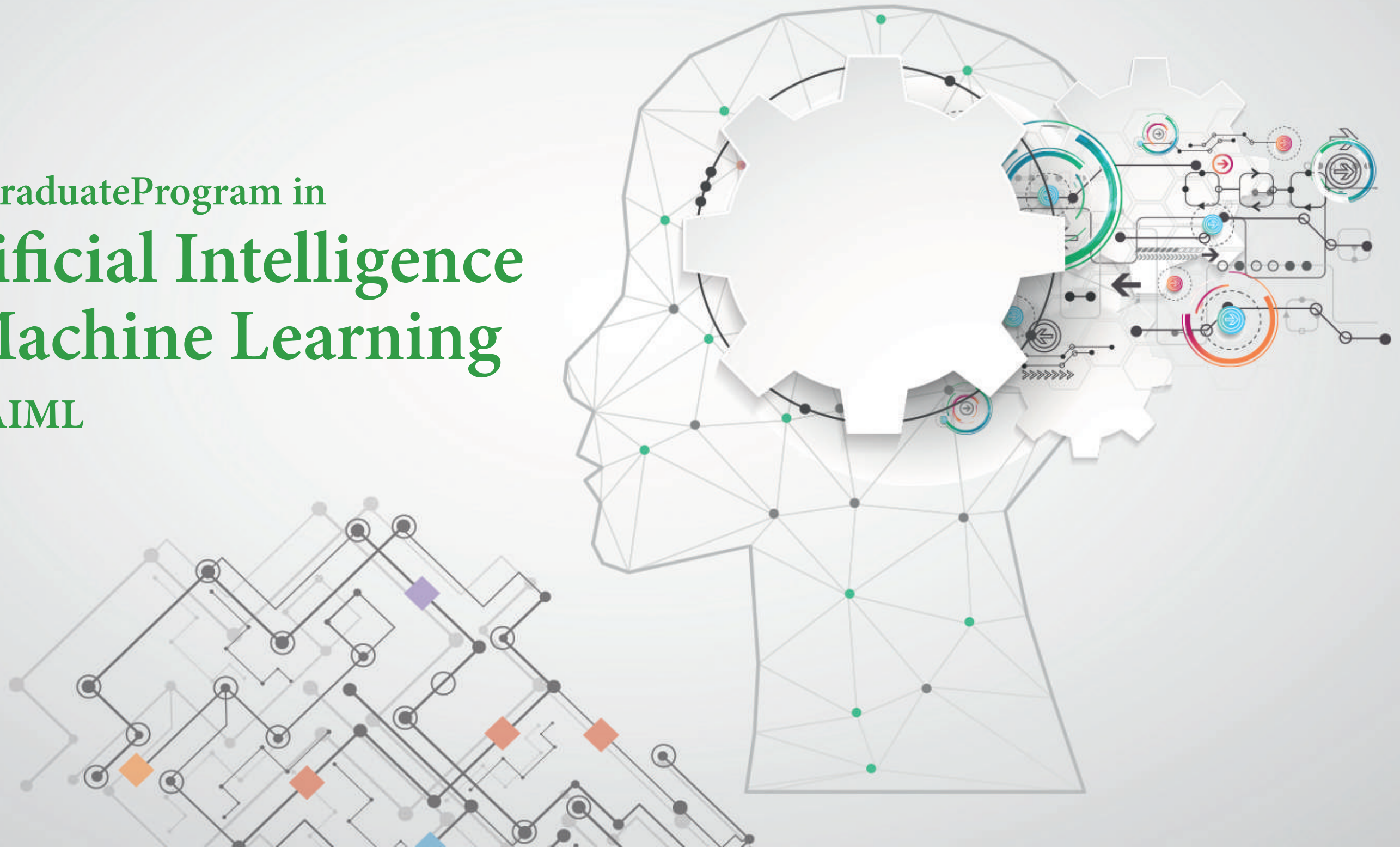


Post Graduate Program in
**Artificial Intelligence
& Machine Learning**
PGP-AIML



Artificial Intelligence The Next Digital Frontier



60%

60% Rise in demand for artificial intelligence, machine learning experts in 2018 *As per Kelly OCG

AIML

AIML is among the most sought after, highest paid and future secure digital economy skill

\$40 billion

\$40 billion Spent by companies around the world in developing AI capabilities in 2016. *As per McKinsey Global Institute report on Artificial Intelligence

76%

76% of indian companies feel the shortage of skilled professionals is slowing down their adoption of AI *As per Intel / IDC

**AI will
Transform**

AI will Transform every industry just like electricity transformed them 100 years back as per Andrew Ng, the a global AIML expert.



Why Great Learning



6 Top Ranked Programs



5000+ Students



1.5 million+ hours of learning in Analytics delivered



250+ Industry Experts

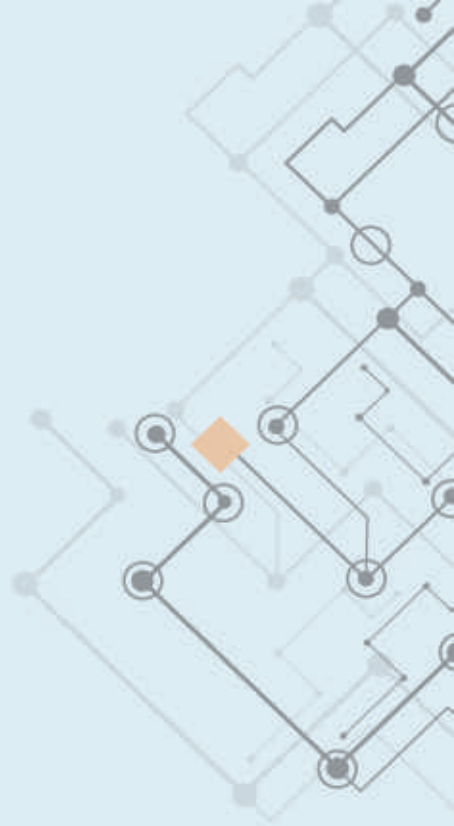


25+ India's best analytics faculty

1st Ranked #1
Analytics Program
by AIM (2015, 2016,
and 2017)

3rd Ranked #3rd
in 1-Year Programs
by Outlook

4th Ranked #4th
in Private B-Schools
by Career360 (2017)



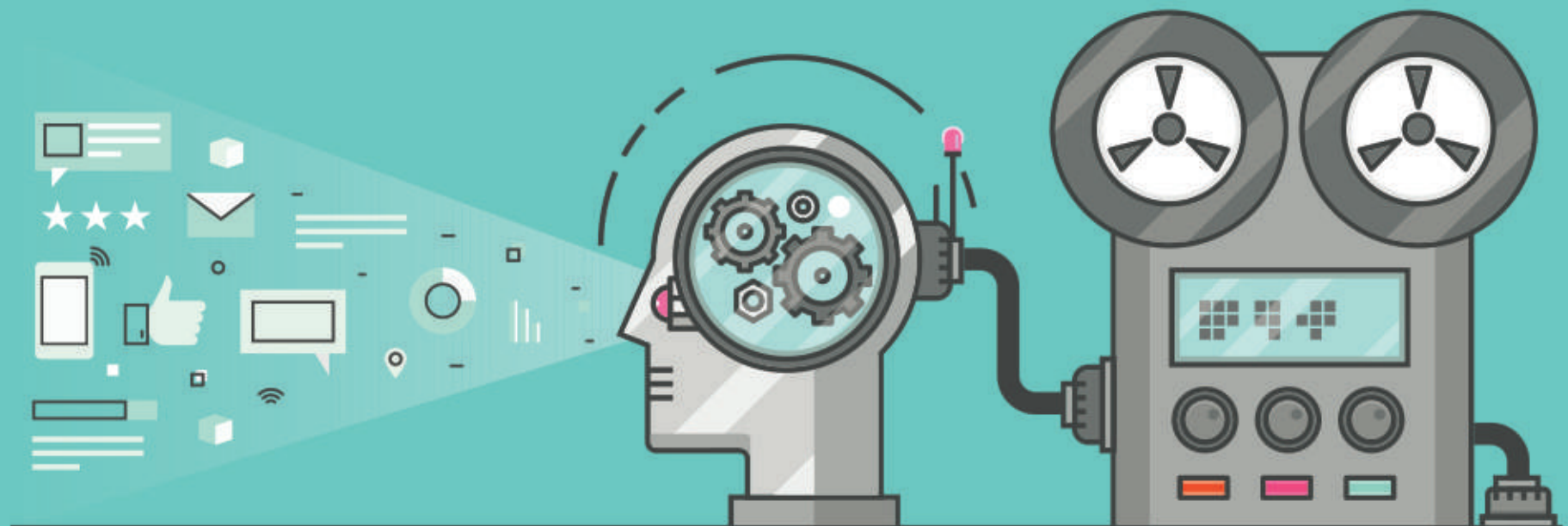
PG Program in

Artificial Intelligence & Machine Learning

Great Lakes has been a pioneer and market leader in developing and offering high-quality cutting edge programs across all areas of the digital economy including Analytics, Data Science, Machine Learning, Cloud Computing and Digital Business. The Post Graduate Program in Artificial Intelligence and Machine Learning is the newest offering from Great Lakes designed to develop competence in AI and ML for future-oriented working professionals.

What makes PGP-AIML Unique?

- ✓ The PGP-AIML program is designed by leading academic and industry experts from India and the US.
- ✓ It is a comprehensive program that covers the most popular and widely used Artificial Intelligence & Machine Learning technologies and applications including Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Intelligent Virtual Agents, Neural Network, Tensor Flow any many more.
- ✓ It is a rigorous and hands-on program with sessions using AI and ML lab and 8 mini projects.
- ✓ It features case studies and learning from some of the top global companies like Uber, Netflix, Google, Amazon etc.
- ✓ The program is delivered in a blended mode to suit the tight schedules of busy working professionals.



What can PGP-AIML help you achieve?



Develop expertise in **popular AI & ML technologies** and problem-solving methodologies



Develop ability to **independently solve business problems** using AI & ML



Learn to use popular **AI & ML technologies like Python, Tensorflow and Keras** to develop applications



Develop a verified portfolio with **8 projects** that will showcase the new skills acquired




Build expertise in AI & ML which are quickly becoming the **most sought-after skills around the world**



Program Pedagogy

PGP-AI is a 12-month blended program with weekend classroom sessions and online learning. Classes will be held one weekend a month at the Great Learning centre in your city and supplemented by online learning content. The program constitutes of nearly 400 learning hours with 250 classroom learning hours.

Delivery Mode of the program

- ✓ Weekend Classroom + Online Learning
 - ✓ Learn by doing (Hands-on Sessions using AI and ML lab)
 - ✓ Learning from both academic faculty and industry practitioner experts
 - ✓ Peer Learning
- 

Program Curriculum

Module	Foundations of AI		
Topics Covered	Python for AI (Significant Functions, Packages and Routines)	Project	Visualizing the data from a year's taxicab and Uber rides in NYC
	Statistics & Probability (Descriptive & Inferential Stats, Probability & Conditional Prob)		
	Visualization principles and techniques		

Module	Machine Learning: Supervised Learning		
Topics Covered	Regression (Linear, Multiple, Logistic)		
	Classification (k-NN, naïve Bayes) techniques		
	Decision Trees		
Module	Machine Learning: Unsupervised Learning		
Topics Covered	Clustering (k-means, hierarchical, high-dimensional)	Project	Combine clustering and classification to build a network intrusion detection system. Improve accuracy and precision by usingensembles of techniques.
	Expectation Maximization		
Module	Machine Learning: Ensemble Techniques		
Topics Covered	Boosting and Bagging		
	Random Forests		
Module	Machine Learning: Reinforcement Learning		
Topics Covered	Value-based methods (e.g. Q-learning)	Project	Combine various techniques in financial trading, and use reinforcement learning to arrive at an optimal strategy
	Policy-based methods		



Program Curriculum

Module **Deep Learning**

Topics Covered

Neural Networks Basics

Deep Neural Networks

Tensor Flow for Neural Networks & Deep Learning

Module **Computer Vision**

Topics Covered

Convolutional Neural Networks

Keras library for deep learning in Python

Pre-processing Image Data

Object & face recognition using techniques above

Project

Using TensorFlow, create an app that interprets images of numbers (like house numbers as seen in your camera) and outputs actual numbers

Module **Deep Learning**

Topics Covered

Statistical NLP and text similarity

Syntax and Parsing techniques

Text Summarization Techniques

Semantics and Generation

Project

Visualizing the data from a year's taxicab and Uber rides in NYC

Module **Intelligent Agents**

Topics Covered

Uninformed and heuristic-based search techniques

Adversarial search and its uses

Planning and constraint satisfaction techniques

Project

Implement a planning search algorithm - solve a logistics/delivery problem using a planning framework and appropriate search techniques



Projects & Tools

During the program duration, candidates will work on projects that will involve hands-on exposure to the following tools:

- ▶ Python
- ▶ Data Libraries such as Pandas, Numpy, Scipy
- ▶ Python Machine Learning library such as scikit-learn
- ▶ Python visualization library such as Matplotlib
- ▶ Natural Language Processing library such as NLTK
- ▶ Tensor Flow
- ▶ Keras

In addition to this, there will be 8 mini projects spread across topics such as:

- ▶ Supervised Learning
- ▶ Unsupervised Learning
- ▶ Ensemble Techniques
- ▶ Reinforcement Learning
- ▶ Deep Learning
- ▶ NLP
- ▶ Computer Vision using data from companies such as Uber, Netflix, AlphaGo (Google), Amazon.

Candidates will also get access to an AI lab where they will use techniques they learn (in areas such as machine learning and deep learning) and solve problems in Computer Vision and Natural Language Processing.





Admission Details

The admissions are conducted on rolling bases and the admission process is closed once the requisite number of candidates have been enrolled in the program.

Eligibility

Applicants should have a minimum of 5 years of experience in a technology role, including at least 2 years of programming experience.

Selection Process

Interested candidates need to apply by filling a simple online application form. The Admissions Committee will review all the applications and shortlisted candidates are required to attend a skype/telephonic interview with the Program Director for final selection.

Program Fees

INR 420,000 + GST (Includes tuition fees, lab access, learning material and cafeteria access on the days of classes)

Payments

Candidates can pay the program fee through Net Banking, Credit Cards or Debit Cards.

Financial Aid

Our tie-ups with several lending partners like HDFC Credila, MoneyTap, Credifable, Axis Bank, and Avanse Education, for students who need financial help, ensure that money is not a constraint in the path of learning.

Program Partners



Great Lakes is India's leading business school with campuses in Chennai and Gurgaon. Led by exceptional faculty and steered by an outstanding advisory council, Great Lakes is ranked amongst India's top 10 business schools and is ranked as the best in the country when it comes to learning analytics. Learning analytics from Great Lakes ensures you get the industry credibility and acceptance as you look to build your career.



Stuart School of Business at IIT Chicago is one the leading business schools in US and is ranked within the top business schools globally by Financial Times and Princeton Review. The executive programs at Stuart School of Business and Illinois Institute of Technology (IIT Chicago) are ranked amongst the best in the country. The focus of executive education at Stuart School of Business, IIT Chicago has always been multi-disciplinary and at the convergence of disruptive business trends with emerging technology.



Great Learning is an online and hybrid learning company that offers high-quality, impactful, and industry-relevant learning programs to working professionals. These programs help them master data-driven decision making regardless of the sector or function they work in and secure their career growth into the future. These programs are delivered through a convenient and robust technology-enabled experience with no disruption to their careers.

Our Alumni succeeds in today's Digital Economy

3000+

3000+ Successful Alumni

1.5 Million+

1.5 Million+ Learning Hours Delivered

66%

Career Transitions amongst alumni

 Microsoft	 amazon	 Google	 YAHOO!	 Flipkart	 citi
 Cognizant	 DELL	 hp	 IBM	 Capgemini	 SAMSUNG
 Adobe®	 Infosys®	 accenture	 MÆRSK	 Fractal	 J.P.Morgan
 ORACLE®	 intel	 Standard Chartered	 AMERICAN EXPRESS	 zomato	 cisco
 Deloitte.	 McKinsey&Company	 BARCLAYS	 yatra	 RBS	 Shell
 TARGET	 HCL	 PHILIPS	 SONY	 Hindustan Unilever Limited	 BOEING
 Honeywell	 NOKIA	 vmware	 SAP	 SIEMENS	 Morgan Stanley

I really appreciate the Great Lakes Team for setting the curriculum and implementing it perfectly. The curriculum is better than a lot of other courses. The projects ensure good hands-on experience.

Mahaboob Basha
DBS Bank

The Program helped me to grow in my career as I could pursue a new opportunity in a new organisation to implement the learnings I had during the course

Chinar Nilkanth
Citi

Excellent faculty, mentors, and program facilitators made the learning experience enjoyable and meaningful.

Aswath
Dunia Finance

It opened the path to get knowledge on different domains and problems where I can play a key role.

Puranam Ramachandran
FSS

The course is amazing. I have never witnessed this level of organized learning anywhere else. Thanks for implementing such a wonderful program.

LR Balaji
Tata Consultancy Services

Reach Us



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greatlearning