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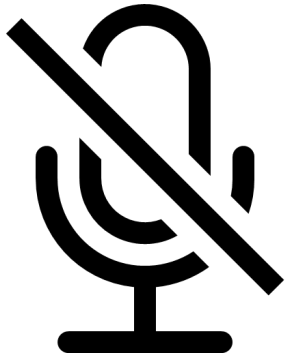
The University of Texas at Austin
McCombs School of Business

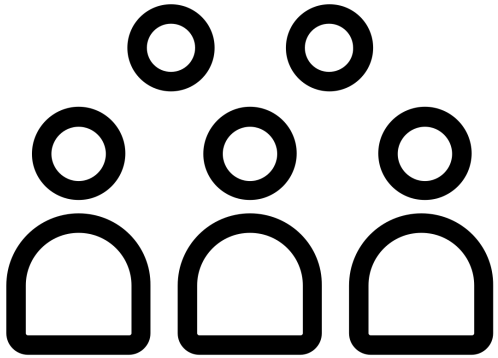
Welcome to the PGP-AIML- BA

Some Guidelines



Listen-only mode

Type your questions in question box



Ask questions which are in the interest of the larger audience

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Agenda

1. *Overview of the Cohort*
2. *Q & A*
   - *~Pre Submitted Questions*
   - *~Live Questions*
3. *Olympus Walkthrough*
4. *How to make the most of this program*
5. *Next Steps*
6. *Basics of Python Programming- Mentor Session*

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250+ learners from 20 countries,
Working in 12 different industries with an average work experience of 11+ years

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Orientation

Great Learning	Program Overview	Delivery Schedule	Delivery Format
Mentored Learning Sessions	Assessments	Feedback	Program Support
Hackathon	Tool & Tech	Learning Philosophy	Olympus Walk through
	Questions	Poll Questions	


Q
A

Delivery Format

- I would like to know what is the start date of the PGP?, Is it May 15th or 22nd?
- What date are you going to start the weekly Mentor Learning Sessions?
- Any recommendation on when the self paced courses like Statistical Learning could be completed? e.g. best to complete before module x starts.
- For the deliverables deadline, will they go by our respective local timezone?

Assessments

- What are the different types of assessments?
- Weekly Quizzes - What is the required passing percentage for this weekly quiz. If I don't make the passing percentage, can I retake the quiz.
- What happens if i fail to secure minimum 60 marks on a single project? /1. I heard both 80% and 60% as minimum required to get certificate. what is it?
- Project - When I'm stuck with a project, will there be an assistance from the mentor or program manager. Also, Am I supposed to complete the project individually or in a group?
- With the Current Covid crisis and the world of uncertainties, there could be some disruption for anyone. So could you please consider any valid exceptions for missing a project deadline?
- To what extent will we learn how to work with GitHub, and then in particular getting to understand the critical features when collaborating and contributing to one single project?

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Mentored Learning Groups & Sessions

- What will be the criterion for making the groups?
- When will we come to know the timings for the mentored Saturday sessions? When will our peers be introduced to each-other?
- Is it possible to contact the faculty outside of the mentored sessions? Or you advise to only use the need assistance feature to contact great learning instead? This is specifically for blocking issues that may impact on-time submissions or learning.
- If we're not able to attend the mentored session at that time, do we have the option of jumping in on another scheduled mentor session that weekend as a one time option?
- Can we bring our real life situations to the class to get input from the cohort as to what is the best way to solve a particular problem using the skills we learn in the course?
- Since the mentoring session is held after the weekly assignment deadline, will the Case Study be a wider expansion of that week's content and applied techniques or does it more closely resemble reinforcement of the core material learned from that week's class content or something else?
- How is the attendance calculated for the curriculum ? Is it counted based on our attendance for mentor sessions ? And how much is minimum attendance required for the course ?

Support

- How will I get help for any question related to the content? Will my program manager be able to answer that?
- Is using WhatsApp a requirement or will all communications be posted to Olympus?

Tools & Learning Content

- I notice the jupyter notebook menu layout looks different from what I installed on my laptop. Is there a particular version we should be using for this class?
- It'd be nice to know the level of Python required for the class, thanks
- How long will I have access to the learning materials and videos after I graduate?
- This course modules are divided into 2 sections. Machine learning (5 modules) and deep learning (3 modules). So where are the modules for the Artificial Intelligence? Are we learning about AI, during this course?

Career Support

- Could you please elaborate a bit more on what kind of career support is provided & how?
- Also, is there an alumnus network within this program that I can connect with?

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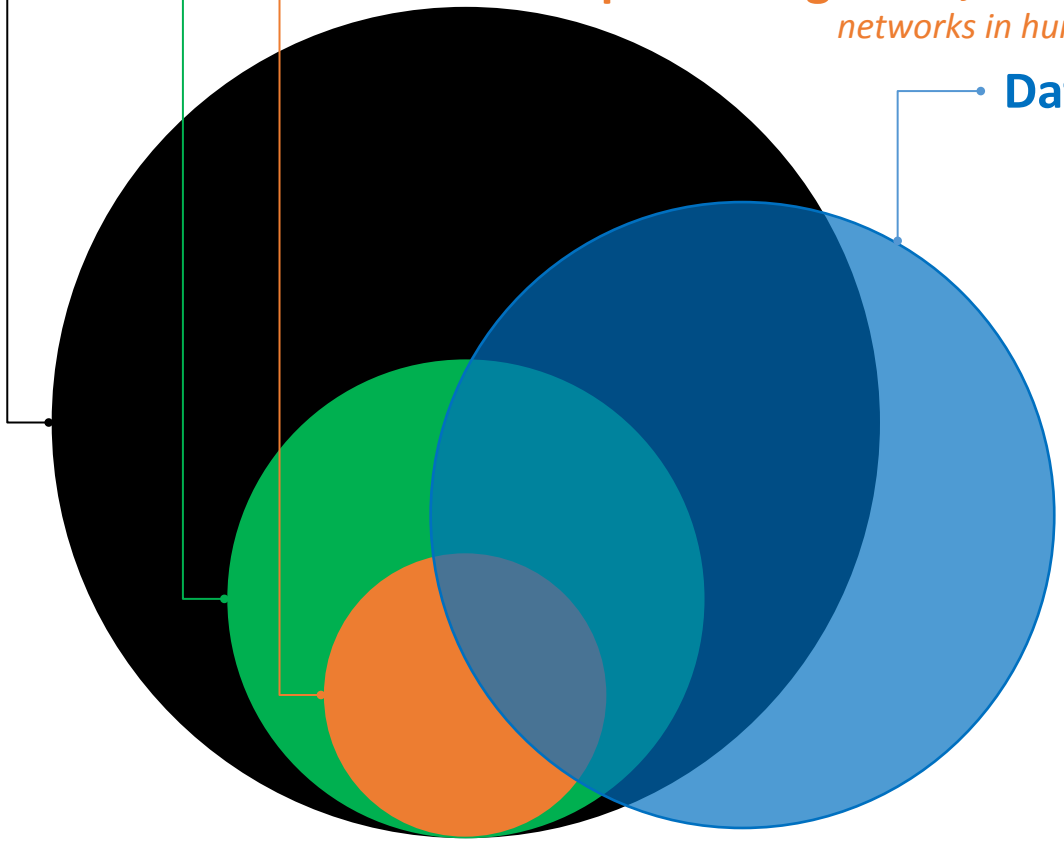
What are these disciplines? - AI vs ML vs DL vs DS

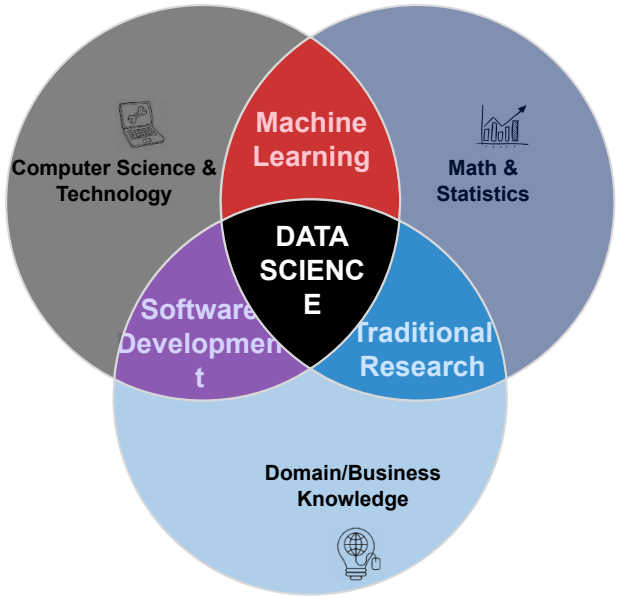
Artificial Intelligence *Machine that mimics human intelligence & behaviour*

Machine Learning *Machine that learns from the data automatically w.r.t a particular task and performance measure*

Deep Learning *Subset of ML, learning happens via algorithms inspired by neural networks in human brain*

Data Science *Using AI to enable data driven decision making*





Key Learning Outcomes

Ability to work with data

Applied knowledge of AI techniques – what, when & how

Ability to problem solve

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Program Structure

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Machine Learning

6 modules
6 projects

Fundamentals of AIML	Supervised Learning: Regression	Supervised Learning: Classification	Ensemble Methods	Model Tuning	Unsupervised Learning
▪ Python Fundamentals ▪ Python for Data Science ▪ Data Visualization and EDA ▪ Project	▪ Linear Regression ▪ Data Processing ▪ Project	▪ Logistic Regression ▪ Decision Tree + Grid Search ▪ Project	▪ Ensemble Techniques (Bagging & Random Forest) ▪ Boosting ▪ Project	▪ Regularization ▪ Feature Engineering & Handling Imbalanced Data ▪ Project	▪ K Means Clustering ▪ Hierarchical Clustering ▪ Project

Deep Learning

3 modules
3 projects

Introduction to Neural Networks	Introduction to Computer Vision	Introduction to Natural Language Processing
▪ Pre-work for DL ▪ Intro to ANN, Tensorflow and Keras ▪ Building Blocks of ANN ▪ Project	▪ Intro to CNN - Working with Images ▪ Introduction to CNNs ▪ Project	▪ Intro to NLP- Working with Text Data ▪ Sentiment Analysis ▪ Project

Self Paced

3 modules

- **Statistical Learning**
- **Recommendation Systems**
- **Model Deployment**

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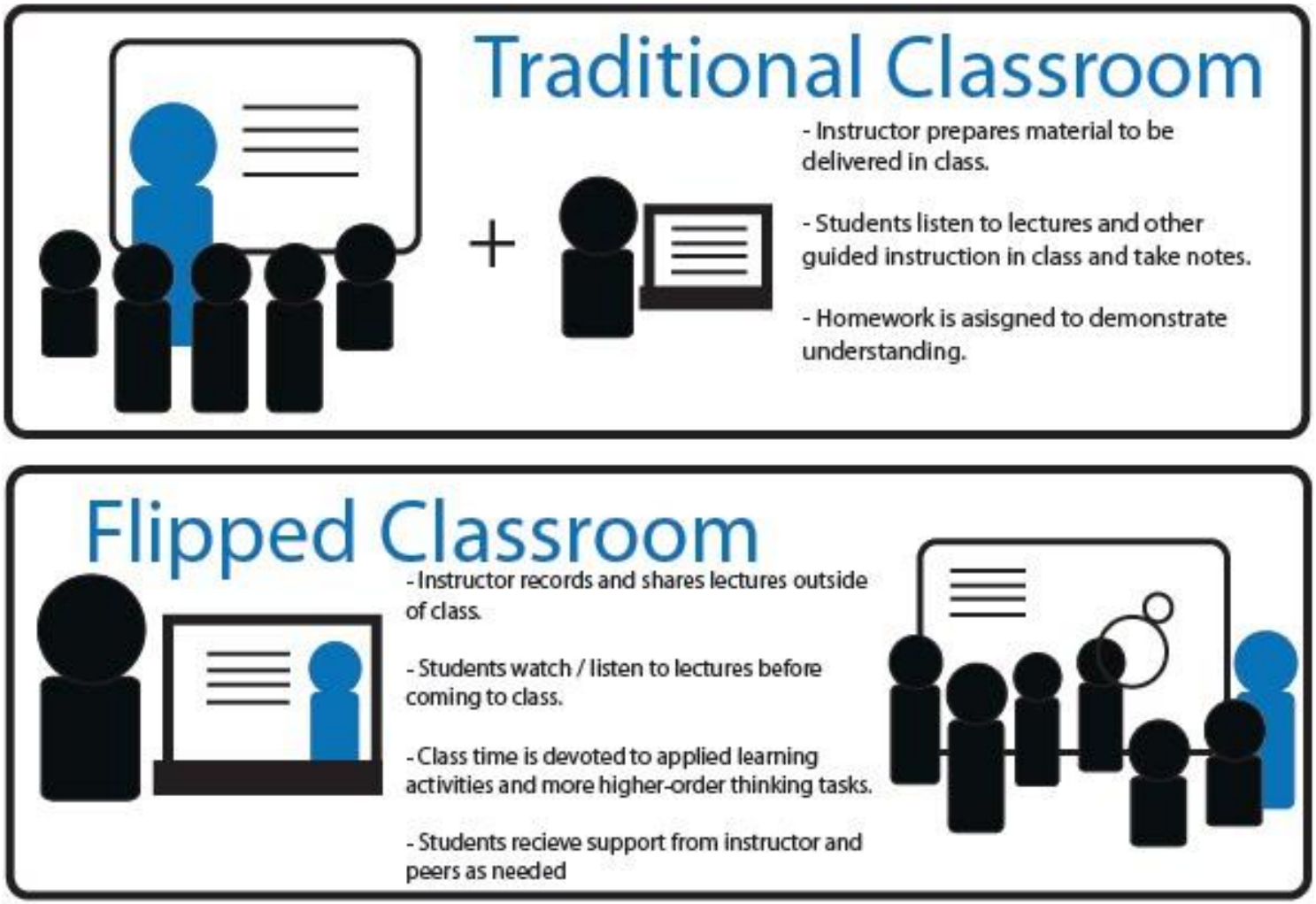
Delivery Schedule

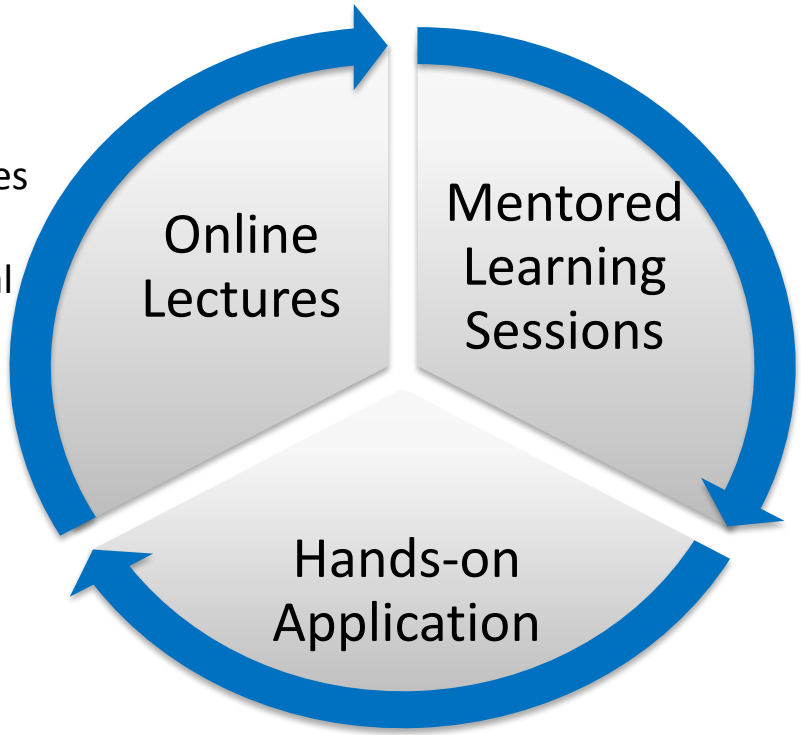
	#	Course	Topics	Content Release Date	Assessment Deadline	Mentored Learning Session Weekend
Foundations	0	Prework	Programming Fundamentals, Python Introduction, Basic Stats	*Available on enrollment*	-	22-May
	1	Fundamentals of AIML	Python Fundamentals	*Available on enrollment*		29-May
			Python for Data Science	20-May	6-Jun	5-Jun
			Data Visualization and EDA	27-May	13-Jun	12-Jun
			Project 1	27-May	18-Jun	19-Jun
Machine Learning Courses	2	Supervised Learning: Regression	Linear Regression	17-Jun	27-Jun	26-Jun
			Data Preprocessing	24-Jun	4-Jul	3-Jul
			Project 2	24-Jun	9-Jul	10-Jul
	3	SUL: Classification	Logistic	8-Jul	18-Jul	17-Jul
			Decision Tree + GridSearch	15-Jul	25-Jul	24-Jul
			Project 3	15-Jul	30-Jul	31-Jul
	4	Ensemble Techniques	Ensemble Techniques (Bagging & Random Forest)	29-Jul	8-Aug	7-Aug
			Boosting	5-Aug	15-Aug	14-Aug
			Project 4	5-Aug	20-Aug	21-Aug
	5	Model Tuning	Regularization	19-Aug	29-Aug	28-Aug
			Feature Engineering & Handling Imbalanced Data	26-Aug	5-Sep	4-Sep
			Project 5	26-Aug	10-Sep	11-Sep
	6	Unsupervised Learning	K means Clustering	9-Sep	19-Sep	18-Sep
			Hierarchical Clustering + PCA	16-Sep	26-Sep	25-Sep
			Project 6	16-Sep	1-Oct	2-Oct
Deep Learning	7	Introduction to Neural Networks	Pre-work for Deep Learning	30-Sep		
			Intro to ANN, Tensorflow and Keras	7-Oct	17-Oct	16-Oct
			Building Blocks of ANN	14-Oct	24-Oct	23-Oct
			Project 7	14-Oct	29-Oct	30-Oct
	8	Introduction to Computer Vision	Intro to CNN - Working with Images	28-Oct	14-Nov	13-Nov
			Introduction to CNNs	11-Nov	21-Nov	20-Nov
			Project 8	11-Nov	26-Nov	27-Nov
	9	Introduction to Natural Language Processing	Intro to NLP- Working with Text Data	25-Nov	5-Dec	4-Dec
			Sentiment Analysis	2-Dec	12-Dec	11-Dec
			Project 9	2-Dec	17-Dec	18-Dec

Approach to learning



Vehicles of delivering learning

- *Watch & Read*
- ~2-3 hours of video lectures per week
- Reference reading material
- Quizzes



- *Discuss*
- Online collaborative, interactive learning space
- Demonstration of hands-on
- Solidify concepts
- Come prepared & ask questions

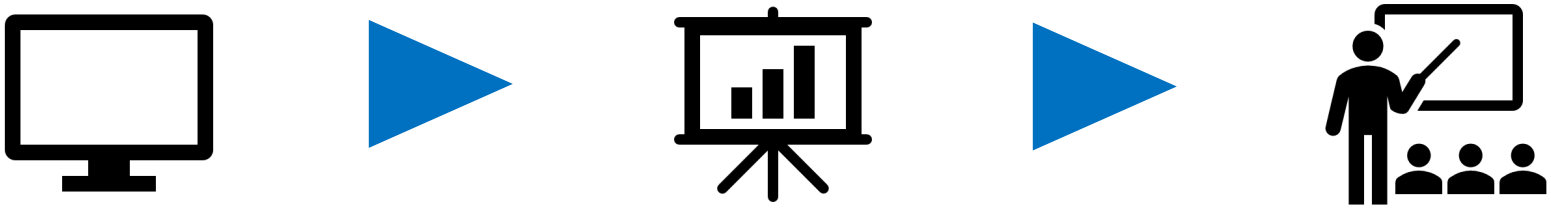
- *Practice hands-on*
- Dataset from the video lectures
- Practice Exercises for self study
- Case study in mentored learning session
- Project in each module

How a week looks like for learners..

Watch Video Lectures to understand the fundamentals

Practice hands-on & Read to explore the concepts and test your understanding

Collaborate on a Case Study in Mentored Learning Session to clarify your doubts



Mentored Learning Session structure

10 mins	Mentors **Gauge** the level of **understanding** of learners and identify things to focus on
20 mins	**Clarification** of doubts on **concepts/learnings** from the course of the week Prioritized based on what topics majority of the group wants to cover
60 mins	**Case Study** : Work **hands-on in Python** and show how to 'apply' the technique
25 mins	**Extended Doubt Clearing** - Additional questions that need be addressed
5 mins	**Summarize** the session

Q&A & Industry Perspective

Can run throughout the session as it is meant to be an interactive one

Assessments are important

In order to be eligible for certificate, you will have to complete all modules with minimum of 60% in each module

Weekly Quizzes

- MCQs with a total of 20-30 points per module
- Deadline driven

Project in each module

- A problem to be solved hands-on with final outputs to be submitted along with codes
- 60 points per module
- Strictly no extensions – in case you miss deadline, you have to do another project

Attendance in Mentored Learning Session carry 10 marks in each module

Give us feedback

- Be ***Descriptive*** – Take the time to detail your feedback
- Be ***Constructive*** – How can your learning be improved?
- Be ***Specific*** – Use instances, examples, etc.
- Be ***Realistic*** – We are balancing the whole class' needs
- Use appropriate Channel - Olympus feedback forms, not WhatsApp or ad-hoc emails

CALL OUT >> WE ASK FOR A LOT OF FEEDBACK

These are discussed in leadership meetings

Learning Ecosystem

Olympus (academic/non-academic)	WhatsApp groups (Urgent non-academic queries)	Email or Call us (Any exceptional requests)
▪ Raise a ticket using the *Need Assistance* option ▪ Post on project discussion forums	▪ Coordination and scheduling ▪ Ad-hoc support from peers or program office	▪ office.aiml.utaustin@mygreatlearning.com ▪ +1 5122336672 ▪ Program Manager ○ Mohit Madaan ○ Shivani Singh

We expect you to stay updated through:

- *Olympus dashboard (Ongoing & Upcoming Activities)*
- *Olympus announcements*
- *Email & Whatsapp groups*

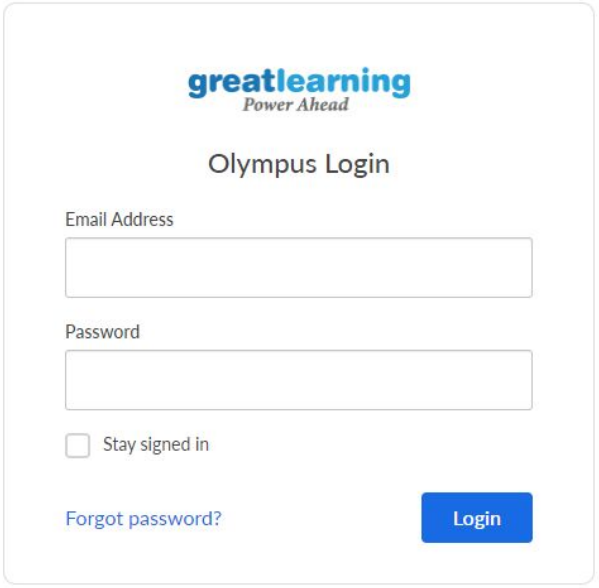
You'll hear from us within 24 hours
Resolution/TAT may depend on the complexity of the query.

Hackathon are fun way to learn

- Real time problem solving competition
- Apply techniques to solve problem at hand
- Real time leader-board to rank model submissions
- Unlimited submissions allowed

Tools & Technology

olympus.greatlearning.in



Great Learning App

- Watch Video Lectures
- Attempt Quizzes
- Check Announcements

Online Sessions

zoom

GoToMeeting

Our Learning Philosophy

1. Learning is a hard process
2. It requires many different things to happen together - It takes a lot more than content to truly learn
3. For true learning to happen, one needs to
    1. Have a clear **learning path** that is **structured** well as well as **comprehensive**
    2. Have access to good **content** from **reputed, credible academicians**
    3. Practice **hands -on** by applying the learning on actual problems
    4. Have access to a **mentor** who can clarify doubts and provide industry perspective
    5. Be **tested frequently and get personalized feedback** to be aware of the progress
    6. Have a **support** available during tough times
    7. Have access to **peers to network** with

    Great Learning experience is all about this journey of learning
4. But it's not just about learning, it is also about career outcomes and for that, one needs to also
    1. Have a good **credibility of the certificate with track record of career outcomes**
    2. Have access to **career support services** to fast track transition to Data Science

    And we also provides these

Great Learning offers a unique learning experience

- Structured learning journey
- Comprehensive curriculum
- World Class Faculty
- UT Austin Credibility
- Hands-on – Learn by doing
- Mentored Learning
- Personalized feedback
- Program Manager Support
- Peer Networking
- Career Support

Approach to learning

Which Approach to learning do we follow?

A. Traditional Classroom Approach
B. Flipped Classroom Approach

(P.S. You have 20 seconds to answer that!)

Correct answer: Flipped Classroom Approach

Assessments

In order to be eligible for the certificate, what is the minimum percentage of marks you need to score in each module?

A. 33%
B. 60%
C. 70%

(P.S. You have 20 seconds to answer that!)

Correct answer: 60% of marks are required in each module to be eligible for certificate

Support

If you need academic help while working on the projects, what will you do?

A. Contact Program Manager
B. Make use of project discussion forum/raise a support request
C. Use any search engine and you will get the answer
D. Reach my mentor directly on email or Whatsapp

(P.S. You have 20 seconds to answer that!)

Correct answer: Make use of project discussion forum/raise a support request

How to make most of your learning experience?

Expectations

- **INTENSE** program
- Need to be **PATIENT** in connecting the dots (happens over time)
- Expect **CHANGES**
- Give constructive and timely **FEEDBACK**
- Build a **BODY OF WORK**

Trust the process

Watch weekly online lectures

Practice using data sets and exercises

Attend weekly mentored learning sessions

Ask your doubts on forums and get program support

Submit assessments on time and get feedback

Next Steps

1. Login to Olympus - olympus.greatlearning.in
   - Complete your profile on Olympus (*Name, linkedIn profile, contact details*)
   - Update timezone from settings on Olympus
2. Go to Program overview:
   - Fill in the **learner information form** (*critical for mentored learning session group assignment*)
   - Go through the **Orientation** & **Learning Philosophy Videos** (*if you already haven't*)
   - Attempt the **diagnostic quiz** within the next 48 hours (*if you already haven't*)
3. Go through the following modules:
   - **Pre-work**
   - **Fundamentals of AIML**
4. Attempt the weekly Quiz 1 by **6th June, 2021** after going the video lectures for **Python for Data Science** thoroughly in the coming week.

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Thank You

We'd love to hear your feedback! Take a few minutes to complete our short survey

Wish you all the very best!

Please reach out to us at
office.aiml.utaustin@mygreatlearning.com