GILBERT RESEARCH CENTER

Online-Data science & Machine Learning Internship Program

Official Time-Table

Month & Date	Coursework / Assignment work / Programming Assignment
5th September 2025	**Coursework Session:** Onboarding Meeting on Internship Data science & Machine Learning.
6th September 2025	**Coursework Session:** Fundamentals of Data Visualization & Graphical representation
	1. **Test Assignment &** 1.**Programming Assignment**

Month & Date	Coursework / Assignment work / Programming Assignment
12th September 2025	**Coursework Session:** Linear Algebra - foundation & core topics to machine learning & data science
13th September 2025	**Coursework Session:** Optimization- foundation topics for machine learning & data science.
	2.Test Assignment & 2.Programming Assignment

Month & Date	Coursework / Assignment work / Programming Assignment
19th September 2025	**Coursework Session:** Probability & Statistics - foundation & core topics to machine learning & data science
20th September 2025	**Coursework Session:** Bayesian theorem and other core probabilistic models of machine learning & data Science
	3.Test Assignment & 3.Programming Assignment

Month & Date	Coursework / Assignment work / Programming Assignment
26th September 2025	**Coursework Session:** Hypothesis test analysis of statistical inference related to the core machine learning model
27th September 2025	**Coursework Session:** Dimensional reduction technique - PCA (Principal Component Analysis)
	4.Test Assignment & 4.Programming Assignment

Month & Date	Coursework / Assignment work / Programming Assignment
3rd October 2025	**Coursework Session:** Linear Regression, Multiple Regression - foundation topics for machine learning & data science
4th October 2025	**Coursework Session:** Correlation, and Non-linear Regression- foundation topics for machine learning & data science
	5.Test Assignment & 5.Programming Assignment

Month & Date	Coursework / Assignment work / Programming Assignment
10th October 2025	**Coursework Session:** Gradient Descent Algorithm for machine learning & deep learning implementation
11th October 2025	**Coursework Session:** Fundamentals of Image Processing & Medical Imaging System X-ray modality
	6.Test Assignment & 6.Programming Assignment
17th October 2025 & 18th October 2025	**Coursework Session:** Neural Network & Convolutional Neural Network - foundation topics to machine learning & data science.
	7.Test Assignment & 7.Programming Assignment

IMPORTANT NOTE:

- **Internship Meeting link will be shared via e-mail to all the candidates.**
- **All Meetings will be held on video communication platform Microsoft Teams.**

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