

GILBERT RESEARCH CENTER

Online-Data science & Machine Learning Internship Program

Official Time-Table

Month & Date	Coursework / Assignment work / Programming Assignment
11th December 2026	**Coursework Session:** Onboarding Meeting on Internship Data science & Machine Learning.
12th December 2026	**Coursework Session:** Fundamentals of Data Visualization & Graphical representation
	1. Test Assignment & **1.Programming Assignment**

Month & Date	Coursework / Assignment work / Programming Assignment
18th December 2026	**Coursework Session:** Linear Algebra - foundation & core topics to machine learning & data science
19th December 2026	**Coursework Session:** Optimization- foundation topics for machine learning & data science.
	2.Test Assignment & 2.Programming Assignment

Month & Date	Coursework / Assignment work / Programming Assignment
25th December 2026	**Coursework Session:** Probability & Statistics - foundation & core topics to machine learning & data science
26th December 2026	**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
1st January 2027	**Coursework Session:** Hypothesis test analysis of statistical inference related to the core machine learning model
2nd January 2027	**Coursework Session:** Dimensional reduction technique - PCA (Principal Component Analysis)
	4.Test Assignment & 4.Programming Assignment

Month & Date	Coursework / Assignment work / Programming Assignment
8th January 2027	**Coursework Session:** Linear Regression, Multiple Regression - foundation topics for machine learning & data science
9th January 2027	**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
15th January 2027	**Coursework Session:** Gradient Descent Algorithm for machine learning & deep learning implementation
16th January 2027	**Coursework Session:** Fundamentals of Image Processing & Medical Imaging System X-ray modality
	6.Test Assignment & 6.Programming Assignment
22nd January 2027 & 23rd January 2027	**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.**

Clinical Diagnostic Prediction Department
Gilbert Research Center
contact@gilbertresearchcenter.com

Hanudev Info Tech Park, Unit No. Block 'C SF No. 558/2 Udaiyampalayam Road, Nava India Rd, Coimbatore, Tamil Nadu 641028

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