



GILBERT RESEARCH CENTER

Online-Data science & Machine Learning Internship Program

Official Time-Table

Month & Date	Coursework / Assignment work / Programming Assignment
14th November 2025	Coursework Session: Onboarding Meeting on Internship Data science & Machine Learning.
15th November 2025	Coursework Session: Fundamentals of Data Visualization & Graphical representation
	1. Test Assignment & 1. Programming Assignment

Month & Date	Coursework / Assignment work / Programming Assignment
21st November 2025	Coursework Session: Linear Algebra - foundation & core topics to machine learning & data science
22nd November 2025	Coursework Session: Optimization- foundation topics for machine learning & data science.
	2.Test Assignment & 2.Programming Assignment

Month & Date	Coursework / Assignment work / Programming Assignment
28th November 2025	Coursework Session: Probability & Statistics - foundation & core topics to machine learning & data science
29th November 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
5th December 2025	Coursework Session: Hypothesis test analysis of statistical inference related to the core machine learning model
6th December 2025	Coursework Session: Dimensional reduction technique - PCA (Principal Component Analysis)
	4. Test Assignment & 4. Programming Assignment

Month & Date	Coursework / Assignment work / Programming Assignment
12th December 2025	Coursework Session: Linear Regression, Multiple Regression - foundation topics for machine learning & data science
13th December 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
19th December 2025	Coursework Session: Gradient Descent Algorithm for machine learning & deep learning implementation
20th December 2025	Coursework Session: Fundamentals of Image Processing & Medical Imaging System X-ray modality
	6.Test Assignment & 6.Programming Assignment
26th December 2025 & 27th December 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.

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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