



GILBERT RESEARCH CENTER

Online-Data science & Machine Learning Internship Program

Official Time-Table

Month & Date	Coursework / Assignment work / Programming Assignment
16th January 2026	Coursework Session: Onboarding Meeting on Internship Data science & Machine Learning.
17th January 2026	Coursework Session: Fundamentals of Data Visualization & Graphical representation
	1. Test Assignment & 1. Programming Assignment

Month & Date	Coursework / Assignment work / Programming Assignment
23rd January 2026	Coursework Session: Linear Algebra - foundation & core topics to machine learning & data science
24th January 2026	Coursework Session: Optimization- foundation topics for machine learning & data science.
	2. Test Assignment & 2. Programming Assignment

Month & Date	Coursework / Assignment work / Programming Assignment
30th January 2026	Coursework Session: Probability & Statistics - foundation & core topics to machine learning & data science
31st January 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
6th February 2026	Coursework Session: Hypothesis test analysis of statistical inference related to the core machine learning model
7th February 2026	Coursework Session: Dimensional reduction technique - PCA (Principal Component Analysis)
	4. Test Assignment & 4. Programming Assignment

Month & Date	Coursework / Assignment work / Programming Assignment
13th February 2026	Coursework Session: Linear Regression, Multiple Regression - foundation topics for machine learning & data science
14th February 2026	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
20th February 2026	Coursework Session: Gradient Descent Algorithm for machine learning & deep learning implementation
21st February 2026	Coursework Session: Fundamentals of Image Processing & Medical Imaging System X-ray modality
	6. Test Assignment & 6. Programming Assignment
27th February 2026 & 28th February 2026	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

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