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**Predictive Analysis – by U Dinesh – IIMB on edX**

<https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/course/>

**Brief Syllabus**

* **Module 0: Course Prerequisites**
  1. 0.0 Welcome
     1. [Module Objective](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@cf40b2dbb3e741c4ab67bb8b8609ec6a)
     2. [Course Overview](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@4bc439dca4d34c6893dc943c4034ebc2)
     3. [Poll: Course Topics](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@f02432e2353448e189d3514e1dedc04c)
  2. 0.1 Descriptive Statistics
     1. [Introduction](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@c938cdb888274e48a667946f4a01dc16)
     2. [Data Types and Scales](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@5ef6b6d1cc91438ebbc038841e62748f)
     3. [Measures of Central Tendency and Dispersion](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@8771ea99255b4f3c83f4e4e0013ca6fb)
     4. [Measures of Shape](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@c8569538c64747d08372ab411c645be2)
     5. [Data Visualization](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@6756e99942dc435dbdda3f1bb1790395)
     6. [Descriptive Statistics Slides](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@deb388490e2c45a19bdc9a4389e85fad)
     7. [Key Takeaways](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@c9c465ffeb5349d4b056019ffc21a326)
     8. [Poll: Learner Feedback](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@dc6327653ea8459b8cf7956c2ff18a9e)
  3. 0.2 Probability Distribution
     1. [Introduction](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@095033c7494c434a87cff695d8451c9f)
     2. [Fundamental Concepts](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@5ed4f42992b34272a1bc054a1ea47d02)
     3. [Random Variables](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@1169cfe5293249538d173574bc3e7634)
     4. [PMF, PDF and CDF](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@d4e4dfda4e5a4d7c9d65d034b63d9c17)
     5. [Normal Distribution](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@15a72e678f4c4daa851e9e41770d96b1)
     6. [Chi-Square Distribution](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@66806a0d9c3a4cb98d7b331c4a4774cb)
     7. [Student's t-Distribution](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@ef0a9603924a42999e9faa90ddf4a832)
     8. [F-Distribution](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@062937fda89e45539aaf64ec62eeecfe)
     9. [Summary](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@1bd6178db797454cbebb3ce28caba1a2)
     10. [Poll: Learner Feedback](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@a8750ece40684e4e8ed4ad353df00d92)
  4. 0.3 Sampling and Estimation
     1. [Introduction](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@49631ce048dd41aab15edbc8a741da18)
     2. [Population Parameters and Sample Statistics](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@36fcf47c238c458e9b829d49a0b18765)
     3. [Sampling Distribution](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@0cf5ea5e88094cbda82a0f44ad1c5660)
     4. [Central Limit Theorem](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@69ed76da0f354f69b6419d43a73c4d9d)
     5. [Summary](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@93c9d4d862064d52bdd12adcb7e543ac)
     6. [Poll: Learner Feedback](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@f32b4b237d7e4b47be1a488c0fa11b82)
  5. 0.4 Hypothesis Testing
     1. [Introduction](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@6eee3f2d38da44f1b9cc252f3f81ebbc)
     2. [Hypothesis Testing](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@6d97d43dde494ae18f100abaec790384)
     3. [Null and Alternative Hypothesis](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@5e771e67084c4bd1aca9fea76faabc5d)
     4. [Ungraded Quiz -1](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@5f0cb31ec8b24145bfd24baa618f993e)
     5. [One-Tailed and Two-Tailed Tests](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@56347513ada84f51a94440a78d4a6304)
     6. [Type-I and Type-II Error](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@adfc7878463d4997986e6b05c8c47d1e)
     7. [Test Statistic](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@13215a9035cd4f03a59bf5f719d2a76c)
     8. [Ungraded Quiz - 2](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@f4feddce11474efabff556f0b6aaff70)
     9. [One-Tailed and Two Tailed Test of Means: Examples](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@87d1af1b2e4547a48093ab558bc0aaed)
     10. [Summary of Steps in Hypothesis Testing](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@08ca1ab6af6a43639c81c9a6bf8b7a71)
     11. [One-Sample Test for Proportion: z-statistic](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@c0f9b4834c7444a68aa7f2939efc85cf)
     12. [One-Tailed and Two-Tailed Test of Means: t-statistic](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@47516b5632df4ca0a699113af4faec26)
     13. [Summary: One-Sample Hypothesis Test](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@443905c89a9444578ec9192ed235f058)
     14. [Two-Sample Hypothesis Tests](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@9b38904f52384a39bb6966da8cf9be09)
     15. [Two-Sample Hypothesis Tests: Scenario 1](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@c8443f558ae7420bbf6e90e138c07288)
     16. [Two-Sample Hypothesis Tests: Scenario 2](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@50548191cc18491cb2b8a9953cc01902)
     17. [Two-Sample Hypothesis Tests: Scenario 3](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@6f2def84120c4727858da25e7646cf65)
     18. [Paired Sample t-Test](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@2f513f206b3243bab10923dd09f13872)
     19. [Summary: Hypothesis Testing](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@f648198ce36f476095c5529690663329)
     20. [Key Takeaways](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@d8a8e0ecaa5b4324bc9077cee18ebfc1)
     21. [Poll: Learner Feedback](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@b651b5283dcf468e8b9724c0c4cfbae1)
  6. 0.5 Analysis of Variance
     1. [Introduction](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@faccb0e9aacc40c6889a3420d46a6f95)
     2. [One-Way ANOVA](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@ef59ab1f5f6a403dad805bc971ae378c)
     3. [Two-Way ANOVA](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@b7731fb7359544c88b9622ae4acfe371)
     4. [ANOVA Slides](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@41d7005a9497438ba919d15e6ca26404)
     5. [Key Takeaways](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@d07fec205dad4251ba48910f9ebc95aa)
     6. [Poll: Learner Feedback](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@c63fb3636bbe4e9597667e8370a9d410)
  7. 0.6 Software Installation - R and Python
     1. [Introduction to R](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@4ba9eaf704494859b1c0d8be94ef48d0)
     2. [Poll: R Installation](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@a6c17f7e6a1b47239f552ac92fcacad2)
     3. [Introduction to Python](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@ad377db82456447c942b83757df24c2d)
     4. [Poll: Python Installation](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@a11e309f3ab34a4d918df7a538fe7e24)
  8. 0.7 Module 0: Repository of Learning Resources
     1. [Co-create Learning Resources](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@1a55b8e00e894236a33a2ec5ab9ae01d)
     2. [Recommended Resources](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@cc87420feb8a463784d000aa6dda0580)
* **Module 1: Introduction to Analytics**
  1. 1.0 Welcome
     1. [Module Objective](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@d7e0f64b29c7432cb925cd37891feb32)
     2. [Module Overview](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@ec360869771641aeb50a9cc7033b35bd)
     3. [Learner Poll](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@9254ff8860e949e9bea8674532ed1650)
  2. 1.1 Analytics Overview
     1. [Introduction](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@cf5067e1e6c64956803e87537a9b5ef7)
     2. [What is Analytics?](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@278990c3897d43c98fa691ecb6622603)
     3. [Why do we need Analytics?](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@d0c81926d41d49f885f18df17f465cd4)
     4. [Ungraded Quiz - 1](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@0cabea950342409fb6dfecf036c11348)
     5. [Key Takeaways](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@5038ac8a2dc64fad900d5eaa9b558629)
     6. [Poll: Learner Feedback](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@48dd842c60d241bb99dd24980d7c261b)
  3. 1.2 Analytics in Decision Making
     1. [Introduction](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@bd6456a684a64ce690305a2b0c25b83d)
     2. [Analytics and Decision Making](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@c3dccfe369894ceeae29cb6e58c9c75b)
     3. [Game Changers and Innovators](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@d38830f539bc44cd8d79ee6c9ca7bef6)
     4. [Power of Analytics](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@05cf6215a65f4e30a28f26308a321383)
     5. [Ungraded Quiz - 2](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@3b279c444a8a4122b88cc1746fba3f39)
     6. [Key Takeaways](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@7e058f114fe9424bb00417e957049419)
     7. [Poll: Learner Feedback](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@944f078b945442d8bf1f6139d1cd3194)
  4. 1.3 Predictive Analytics
     1. [Introduction](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@828fe5a50cf74812840479ecbb46a951)
     2. [Predictive Analytics](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@68f33fe5442341d89f7ad09e109c940a)
     3. [Ungraded Quiz - 3](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@f51dfffbdc84415f8cf692eff561819b)
     4. [Key Takeaways](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@846cbd09e0ef4e769b1249034d76811a)
     5. [Poll: Learner Feedback](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@a066881a08d94f87977243de8ef2aeb2)
  5. 1.4 Experts View on Analytics
     1. [Unit 1 - Finance](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@553639dd7b154d538971f00de0cbe4fa)
     2. [Unit 2 - Manufacturing](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@00bcbbaa21964686ad8aef7b55d4c28b)
     3. [Unit 3 - Healthcare](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@8be58b25feb44fbbb0dfe4512cb4edde)
     4. [Unit 4 - IT](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@843bb6f6648a461283febe1fd498b854)
     5. [Unit 5 - Telecommunications](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@dcb33bce91fb4b63934077fb7d9d28cc)
     6. [Unit 6 - Supply Chain](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@eb5563989aaf4764a2d6517995317bef)
     7. [Unit 7 - Digital Analytics](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@0a39e879b1094675828427b2ad8eab40)
     8. [Key Takeaways](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@f309eb53c32f46da93c9af15b667a3e7)
     9. [Poll: Learner Feedback](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@d57bf55b92bf44fda2e0a2f8703bfc6c)
  6. 1.6 Module 1: Repository of Learning Resources
     1. [Co-create Learning Resources](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@030b8196b38d4bb78d5a7130f75ccdd1)
     2. [Recommended Resources](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@f31f133637954ac6ac7fee6029ad3814)
* **Module 2: Simple Linear Regression (SLR)**
  1. 2.0 Welcome
     1. [Module Objective](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@c7974c7972f64df894c3d2c241c38238)
     2. [Module Overview](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@f3ade6d01f1d4c50b974b02d4719b205)
     3. [Learner Poll](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@afa463ffbd924052ba1ad87e87050788)
  2. 2.1 Caselet Overview
     1. [Learning Objectives for Week 2](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@95dde602ffa84d5685a08116b9a4e8c8)
     2. [DAD Hospital : Package Pricing](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@c64f21b4cf6442b3b617acb475c344fd)
  3. 2.2 Introduction to Regression
  4. 2.3 Regression: Model Development
  5. 2.4 Estimation of Confidence and Prediction Interval
  6. 2.5 SLR: Model Validation
  7. 2.6 Residual Analysis
  8. 2.7 Practice Problems
     1. [Questions](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@35f9d5152dd1427dab4920aaa3c998d7)
     2. [Solution](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@7ef73bca31194af79279e61a475a4120)
  9. 2.8 Demo and Exercise: Data Analysis Week 2 Assessment  This content is graded
     1. [Excel](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@cc8a27c0dd9e4f32bae140f1cf54f36e)
     2. [SPSS](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@c2d219a6f53a46b2a87bd32de48045b9)
     3. [Graded Exercise](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@5b7bc5e1044c42829a1ba1c839d03057)
  10. 2.10 Module 2: Repository of Learning Resources
      1. [Co-create Learning Resources](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@19b94f1ddb3d437ebfe1b62d3eb6921b)
      2. [Recommended Resources](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@fb6042516613481fbd0b770c431abebf)
* **Module 3: Multiple Linear Regression (MLR)**
  1. 3.0 Welcome
     1. [Module Objective](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@84c5281c689e4bde9f9568a62875e6bd)
     2. [Module Overview](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@7cc2f9da1b8c44b793df6790917a1a9e)
     3. [Learner Poll](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@ce443510e046400a8d5795cac5e633ca)
  2. 3.1 Introduction to Multiple Regression
  3. 3.2 Multiple Regression: Model Development
  4. 3.3 Multiple Regression: Model Diagnostics
  5. 3.4 Qualitative Variables and Multi-collinearity
  6. 3.5 Variable Selection Methods
  7. 3.6 Model Deployment
  8. 3.7 Practice Problems
     1. [Questions](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@7fe43005e5a942448f8e1b43cfb61860)
     2. [Solution](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@16d7b0a31ef444cf82a81226c52d663b)
  9. 3.8 Demo and Exercise: Data Analysis Week 3 Assessment  This content is graded
     1. [SPSS](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@5fb63c024b6a4127b0ee9cd7f6b6a34f)
     2. [Graded Exercise](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@f531a3d91db34aa5ab56b923e1fc8bc1)
  10. 3.10 Module 3: Repository of Learning Resources
      1. [Co-create Learning Resources](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@4d11782312b34336bb23f61c3e2075d6)
      2. [Recommended Resources](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@1b396c35be4744c99a6a795948f083d8)
* **Module 4: Logistic Regression**
  1. 4.0 Welcome
     1. [Module Objective](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@7b8d3a2a67c04becb2d3de89ecc78ce8)
     2. [Module Overview](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@0c4f3e2522614bf2acf6c2470cec137f)
     3. [Learner Poll](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@a3bbd35e30cf41128f63cd85cfb6a46a)
  2. 4.1 Introduction to Logistic Regression Week 4 Assessment

This content is graded

* 1. 4.2 Logistic Regression: Estimation and Interpretation
  2. 4.3 Logistic Regression: Model Diagnostics Week Assessment

This content is graded

* 1. 4.4 Logistic Regression: Example and Accuracy measures Week 4 Assessment  This content is graded
  2. 4.5 Model Deployment and Classroom Queries Week 4 Assessment  This content is graded
  3. 4.6 Demo and Exercise: Data Analysis Week 4 Assessment

This content is graded

* 1. 4.8 Module 4: Repository of Learning Resources
     1. [Co-create Learning Resources](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@3bfc90061a6145fdab1f02beef67b91b)
     2. [Recommended Resources](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@3db0af6f60fe480f90b7b6622a0a454a)
* **Mid-Term Exam**
  1. Mid-term MidTerm  This content is graded
* **Module 5 : Decision Trees and Unstructured Data Analysis**
  1. 5.0 Welcome
     1. [Module Objective](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@5bccdb25a4364599bbda4da3e7d7e8e6)
     2. [Module Overview](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@a5fa336480914d0ea1e9df77a0f591e0)
     3. [Learner Poll](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@3d765c1d41d3472e82a77e7eb66340a1)
  2. 5.1 Introduction to Decision Trees Week 5 Assessment  This content is graded
  3. 5.2 Chi-square Automatic Interaction Detector ( CHAID ) Week 5 Assessment  This content is graded
  4. 5.3 Classification and Regression Tree ( CART ) Week 5 Assessment  This content is graded
  5. 5.4 Naive Bayes Classification and Classroom Queries
  6. 5.5 Demo and Exercise : Data Analysis Week 5 Assessment  This content is graded
  7. 5.7 Module 5: Repository of Learning Resources
     1. [Co-create Learning Resources](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@93aeb81ea8e2426f98808b5d49bc3410)
     2. [Recommended Resources](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@5d154a98e054493aa64047642eab72ba)
* Learner: FAQ
  1. Webinar
     1. [Webinar Video](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@8abc6655e0ad4cf0abb5e6c4666c8bd1)
     2. [FAQ](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@cfd92db49e1d4d169af96e594a74c797)
* **Module 6 : Forecasting and Time-Series Analysis**
  1. 6.0 Welcome
     1. [Module Objective](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@e7137f6bcdfb479a9473e0740523629d)
     2. [Module Overview](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@37fd263e54bd4c33b15bc519afb756de)
     3. [Learner Poll](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/jump_to/block-v1:IIMBx+QM901x+1T2019+type@vertical+block@494f130c64c4470885d394a33a399713)
  2. 6.1 Forecasting
  3. 6.2 Time Series Analysis
  4. 6.3 Exponential Smoothing Techniques

Week 6 Assessment  This content is graded

* 1. 6.4 Forecasting: Time Series Data

Week 6 Assessment  This content is graded

* 1. 6.5 Auto regressive and Moving average models

Week 6 Assessment  This content is graded

* 1. 6.6 Model Deployment and Classroom queries
  2. 6.7 DWeek 6 Assessment  This content is graded
  3. 6.9 Module 6: Repository of Learning Resources
* **Final Exam**
  1. Exam Final Exam  This content is graded

**Course Tools**

* [Bookmarks](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/bookmarks/)
* [Updates](https://courses.edx.org/courses/course-v1:IIMBx+QM901x+1T2019/course/updates)
* [Upgrade to Verified](https://ecommerce.edx.org/basket/add/?sku=C1E2E6C)

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**Course End**

in 3 months - Aug 22, 2019

After this date, course content will be archived.

**Course Handouts**

[Course Syllabus](https://prod-edxapp.edx-cdn.org/assets/courseware/v1/30e863c01f816291b7a22756fc440f0e/asset-v1:IIMBx+QM901x+1T2019+type@asset+block/QM901x_CourseSyllabus.pdf)

[Discussion Forum Guidelines](https://courses.edx.org/asset-v1:IIMBx+QM901x+3T2015+type@asset+block/MOOC_Discussion_Forum_Guidelines.pdf)