(Yi) = Final grade

Yiv = Grade on weekly discussion board forums (GradeonDiscussionForumAccumulatedpoints)

Yiw = Grade on Assignment 1

Yix = Grade on Assignment 2

Yiy = Grade on Final Paper or Final Exam or Term Project

Yiz = Grade on Discussion Leader

Therefore, Yi = Yiv + Yiw + Yix + Yiy + Yiz

**Main Question: Can you create a predictive model for overall Final Grades using combinations of the various variables? (After getting an overall model, repeat the same process, but this time only use Course Number 2)**

Take into the consideration the weights of the grades below towards the final grade.

|  |  |  |
| --- | --- | --- |
| **Final Grade Computation** | Type of Assessment | Allocated Percentages in most courses |
| Grade on weekly discussion board forums (GradeonDiscussionForumAccumulatedpoints) | Formative | 40% - 45% |
| Grade on Assignment 1 | Formative | 10% - 20% |
| Grade on Assignment 2 | Formative | 20% |
| Grade on Final Paper or Final Exam or Term Project | Summative | 25% |
| **Others** |  |  |
| Grade on Discussion Leader | Formative | 10% |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Case Processing Summary** | | | | | | |
|  | Cases | | | | | |
| Valid | | Missing | | Total | |
| N | Percent | N | Percent | N | Percent |
| Total Grade | 566 | 89.7% | 65 | 10.3% | 631 | 100.0% |
| GradeonDiscussionForumAccumulatedpoints | 631 | 100.0% | 0 | 0.0% | 631 | 100.0% |
| GradeonDiscussionLeader | 190 | 30.1% | 441 | 69.9% | 631 | 100.0% |
| GradeonAssignment1 | 483 | 76.5% | 148 | 23.5% | 631 | 100.0% |
| GradeonAssignment2 | 484 | 76.7% | 147 | 23.3% | 631 | 100.0% |
| GradeonFinalPaper | 556 | 88.1% | 75 | 11.9% | 631 | 100.0% |
| TotalTimeStudentsspentinCourseonSundays | 27 | 4.3% | 604 | 95.7% | 631 | 100.0% |
| TotalTimeStudentsspentinCourseonMondays | 27 | 4.3% | 604 | 95.7% | 631 | 100.0% |
| TotalTimeStudentsspentinCourseonTuesdays | 27 | 4.3% | 604 | 95.7% | 631 | 100.0% |
| TotalTimeStudentsspentinCourseonWednesdays | 27 | 4.3% | 604 | 95.7% | 631 | 100.0% |
| TotalTimeStudentsspentinCourseonThursdays | 27 | 4.3% | 604 | 95.7% | 631 | 100.0% |
| TotalTimeStudentsspentinCourseonFridays | 27 | 4.3% | 604 | 95.7% | 631 | 100.0% |
| TotalTimeStudentsspentinCourseonSaturdays | 26 | 4.1% | 605 | 95.9% | 631 | 100.0% |
| TotalTimeStudentsspentinCourseinHours | 61 | 9.7% | 570 | 90.3% | 631 | 100.0% |
| AverageTimeinCourseinHours | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| TotalLogins | 27 | 4.3% | 604 | 95.7% | 631 | 100.0% |
| TotalitemsAccessed | 27 | 4.3% | 604 | 95.7% | 631 | 100.0% |
| TotaltimespentonAssignment1inHours | 27 | 4.3% | 604 | 95.7% | 631 | 100.0% |
| NumberofTimesAssignment1Accessed | 27 | 4.3% | 604 | 95.7% | 631 | 100.0% |
| TotaltimespentonAssignment2inHours | 27 | 4.3% | 604 | 95.7% | 631 | 100.0% |
| NumberofTimesAssignment2Accessed | 27 | 4.3% | 604 | 95.7% | 631 | 100.0% |
| TotaltimespentonAssignmentscontentfolderinHours | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| NumberofTimesAssignmentscontentfolderAccessed | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| TotaltimespentonFinalPaperinHours | 27 | 4.3% | 604 | 95.7% | 631 | 100.0% |
| NumberofTimesFinalPaperAccessed | 27 | 4.3% | 604 | 95.7% | 631 | 100.0% |
| TotaltimespentonReadingfortheCourse | 41 | 6.5% | 590 | 93.5% | 631 | 100.0% |
| NumberofTimesReadingforthecourseAccessed | 27 | 4.3% | 604 | 95.7% | 631 | 100.0% |
| TotaltimespentonWeek1Readingsinhrs | 16 | 2.5% | 615 | 97.5% | 631 | 100.0% |
| NumberofTimesWeek1RdgsAccessed | 16 | 2.5% | 615 | 97.5% | 631 | 100.0% |
| TotaltimespentonWeek2Readingsinhrs | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| NumberofTimesWeek2RdgsAccessed | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| TotaltimespentonWeek3Readingsinhrs | 17 | 2.7% | 614 | 97.3% | 631 | 100.0% |
| NumberofTimesWeek3RdgsAccessed | 17 | 2.7% | 614 | 97.3% | 631 | 100.0% |
| TotaltimespentonWeek4Readingsinhrs | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| NumberofTimesWeek4RdgsAccessed | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| TotaltimespentonWeek5Readingsinhrs | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| NumberofTimesWeek5RdgsAccessed | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| TotaltimespentonWeek6Readingsinhrs | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| NumberofTimesWeek6RdgsAccessed | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| TotaltimespentonWeek7Readingsinhrs | 16 | 2.5% | 615 | 97.5% | 631 | 100.0% |
| NumberofTimesWeek7RdgsAccessed | 16 | 2.5% | 615 | 97.5% | 631 | 100.0% |
| TotaltimespentonWeek8Readingsinhrs | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| NumberofTimesWeek8RdgsAccessed | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| TotaltimespentonWeek9Readingsinhrs | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| NumberofTimesWeek9RdgsAccessed | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| TotaltimespentonWeek10Readingsinhrs | 17 | 2.7% | 614 | 97.3% | 631 | 100.0% |
| NumberofTimesWeek10RdgsAccessed | 17 | 2.7% | 614 | 97.3% | 631 | 100.0% |
| TotaltimespentonSyllabusinhrs | 41 | 6.5% | 590 | 93.5% | 631 | 100.0% |
| NumberofTimesSyllabusAccessed | 27 | 4.3% | 604 | 95.7% | 631 | 100.0% |
| TotaltimespentonWeeklyContentinhrs | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| NumberofTimesWeeklyContentAccessed | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| TotaltimespentonWeeklyContentforWeeks9and10 | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| NumberofTimesWeeklycontentwk9andwk10Accessed | 18 | 2.9% | 613 | 97.1% | 631 | 100.0% |
| Total Hits on Content Area App | 221 | 35.0% | 410 | 65.0% | 631 | 100.0% |
| Total Hits inside Content Areas | 312 | 49.4% | 319 | 50.6% | 631 | 100.0% |
| Hits on Content | 267 | 42.3% | 364 | 57.7% | 631 | 100.0% |
| Hits on Information | 248 | 39.3% | 383 | 60.7% | 631 | 100.0% |
| Hits on Bboard Help | 14 | 2.2% | 617 | 97.8% | 631 | 100.0% |
| Hits on Assignment | 280 | 44.4% | 351 | 55.6% | 631 | 100.0% |
| Hits on Course Resources | 160 | 25.4% | 471 | 74.6% | 631 | 100.0% |
| Hits on Quiz | 85 | 13.5% | 546 | 86.5% | 631 | 100.0% |
| Hits on Syllabus | 231 | 36.6% | 400 | 63.4% | 631 | 100.0% |
| Hits on Documents | 78 | 12.4% | 553 | 87.6% | 631 | 100.0% |
| Hits on Readings | 23 | 3.6% | 608 | 96.4% | 631 | 100.0% |
| Hits on books | 14 | 2.2% | 617 | 97.8% | 631 | 100.0% |
| Hits on E-Reserves | 14 | 2.2% | 617 | 97.8% | 631 | 100.0% |
| Hits on Final Paper | 33 | 5.2% | 598 | 94.8% | 631 | 100.0% |
| Hits on Messages | 23 | 3.6% | 608 | 96.4% | 631 | 100.0% |
| Hits on First Steps | 14 | 2.2% | 617 | 97.8% | 631 | 100.0% |
| Hits on Roster | 39 | 6.2% | 592 | 93.8% | 631 | 100.0% |
| hits on Participation | 14 | 2.2% | 617 | 97.8% | 631 | 100.0% |
| Hits on Submitting Work | 14 | 2.2% | 617 | 97.8% | 631 | 100.0% |
| Hits on Web Links & others | 56 | 8.9% | 575 | 91.1% | 631 | 100.0% |
| Hits on Tasks | 51 | 8.1% | 580 | 91.9% | 631 | 100.0% |
| Hits on Web Sites & others | 47 | 7.4% | 584 | 92.6% | 631 | 100.0% |
| Hits on Staff Information | 103 | 16.3% | 528 | 83.7% | 631 | 100.0% |
| Hits on Tools Area App | 103 | 16.3% | 528 | 83.7% | 631 | 100.0% |
| Total Hits on My Grades App | 103 | 16.3% | 528 | 83.7% | 631 | 100.0% |
| Total Hits on Announcement App | 163 | 25.8% | 468 | 74.2% | 631 | 100.0% |
| Total Hits on DB App | 163 | 25.8% | 468 | 74.2% | 631 | 100.0% |
| DBDiscussionLeaderSignupboardMFhits | 588 | 93.2% | 43 | 6.8% | 631 | 100.0% |
| DBGeneralQuestionsMFhits | 587 | 93.0% | 44 | 7.0% | 631 | 100.0% |
| DBIntroductionMFhits | 549 | 87.0% | 82 | 13.0% | 631 | 100.0% |
| DBWaterCoolerMFHits | 578 | 91.6% | 53 | 8.4% | 631 | 100.0% |
| DBWeek1MFhits | 587 | 93.0% | 44 | 7.0% | 631 | 100.0% |
| DBWeek2MFhits | 587 | 93.0% | 44 | 7.0% | 631 | 100.0% |
| DBWeek3MFhits | 587 | 93.0% | 44 | 7.0% | 631 | 100.0% |
| DBWeek4MFhits | 587 | 93.0% | 44 | 7.0% | 631 | 100.0% |
| DBWeek5MFhits | 587 | 93.0% | 44 | 7.0% | 631 | 100.0% |
| DBWeek6MFhits | 587 | 93.0% | 44 | 7.0% | 631 | 100.0% |
| DBWeek7MFhits | 587 | 93.0% | 44 | 7.0% | 631 | 100.0% |
| DBWeek8MFhits | 587 | 93.0% | 44 | 7.0% | 631 | 100.0% |
| DBWeek9MFhits | 587 | 93.0% | 44 | 7.0% | 631 | 100.0% |
| DBWeek10MFhits | 547 | 86.7% | 84 | 13.3% | 631 | 100.0% |
| TotalDBMFhits | 617 | 97.8% | 14 | 2.2% | 631 | 100.0% |
| DBDiscussionLeaderSignupboardNumberofposts | 30 | 4.8% | 601 | 95.2% | 631 | 100.0% |
| DBGeneralQuestionsNumberofposts | 549 | 87.0% | 82 | 13.0% | 631 | 100.0% |
| DBIntroductionNumberofposts | 446 | 70.7% | 185 | 29.3% | 631 | 100.0% |
| DBWaterCoolerNumberofposts | 438 | 69.4% | 193 | 30.6% | 631 | 100.0% |
| DBWeek1Numberofposts | 528 | 83.7% | 103 | 16.3% | 631 | 100.0% |
| DBWeek2Numberofposts | 540 | 85.6% | 91 | 14.4% | 631 | 100.0% |
| DBWeek3Numberofposts | 540 | 85.6% | 91 | 14.4% | 631 | 100.0% |
| DBWeek4Numberofposts | 557 | 88.3% | 74 | 11.7% | 631 | 100.0% |
| DBWeek5Numberofposts | 557 | 88.3% | 74 | 11.7% | 631 | 100.0% |
| DBWeek6Numberofposts | 557 | 88.3% | 74 | 11.7% | 631 | 100.0% |
| DBWeek7Numberofposts | 557 | 88.3% | 74 | 11.7% | 631 | 100.0% |
| DBWeek8Numberofposts | 557 | 88.3% | 74 | 11.7% | 631 | 100.0% |
| DBWeek9Numberofposts | 557 | 88.3% | 74 | 11.7% | 631 | 100.0% |
| DBWeek10Numberofposts | 543 | 86.1% | 88 | 13.9% | 631 | 100.0% |
| TotalNumberofDBposts | 631 | 100.0% | 0 | 0.0% | 631 | 100.0% |