

## Machine Learning 2018: Predicting future rank and score of graduation by using students status and temporal behavior- Beesung Kam and Byung Kwan Choi-Pusan National University

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In spite of the fact that there is a rich writing anticipating understudy execution dependent on courses and talks, it is substantially less concentrated in foreseeing degree endless supply of student's character. Student's low score of graduation is a basic issue in clinical school since understudies who bring about lower scores for the most part come up short from Korean Medical Licensing Examination (KMLE). This paper presents a strategy for administered figuring out how to foresee future position and score of understudies by utilizing data gave earlier of access to the school. Informational collections of 256 number of graduated understudies from Pusan National University School of Medicine school year of 2016 and 2017 were disseminated to AI by multiple times. By utilizing strategy for standard least squares relapse three gatherings of understudies were set up contingent upon their accomplished last graduation to low, mid and high scores. These gatherings were utilized as a rule to rotate character information of first year recruits for additional examination. Expectation broke down by student's status, in light of their student's transient conduct, for example, age, sex, blood classification, school of graduation, area, major, side interest, strict, drinking propensity, parent's status, educational cost technique for installment and enlistment to an application can impact on their future earned position and score. Predicating future understudy rank and score assists with observing, survey and restore student's guide to upgrade learning progress. This expectation not just causes understudy to know how they do yet additionally empower them as a criticism to strengthen their present technique for learning for additional improvement. Albeit expanding pilot information for this investigation can upgrade the examination accomplishment and

improving understudy character can be testing, technique for deciding low score of graduation by AI can shimmer new time to advance learning. The point of this investigation was to rank affecting variables that add to the expectation of understudies' scholarly exhibition. It is helpful in recognizing feeble understudies who are probably going to perform inadequately in their investigations. In this investigation, we utilized WEKA open source information mining apparatus to break down characteristics for foreseeing a higher learning organization's unhitched male of software engineering understudies' scholarly exhibition. The informational index involved 2427 number of understudy records and 396 characteristics of understudies enlisted between year 2000 and 2006. Preprocessing incorporates characteristic significance investigation. We applied the informational collection to various classifiers (Bayes, trees or work) and acquired the precision of anticipating the understudies' presentation into either first-secondupper class or second-lower-second rate class. A cross-approval with 10 folds was utilized to assess the expectation precision. Our outcomes demonstrated the positioning of courses that has critical effect on anticipating the understudies' general scholastic outcomes. Moreover, we perform tests contrasting the presentation of various classifiers and the outcome demonstrated that Naïve Bayes, AODE and RBFNetwork classifiers scored the most noteworthy level of expectation exactness of 95.29%.

### Biography:

Beesung Kam has his degree in Computer Science and another in Medical Anatomy. He has completed his second PhD from Pusan National University School of Medicine. He is the Director of Maritime

Mobile Health Research, a premier bio-soft service organization. He is researching in the area of medical education since 2005 and has digitalized student assessments of different grades.

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