Syllabus

Statistical Modelling & Machine Learning

Jaejik Kim

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STA3036

Statistical Modelling & Machine Learning

- 1. Time: 10:30 11:45AM Tuesday and 9:00 10:15AM Thursday (This time is for exams and real time steaming classes).
- 2. Classroom: Online class (I will regularly upload lecture video clips on l-campus + if necessary, we will have real time streaming class).
- 3. Instructor: Jaejik Kim (email: jaejik@skku.edu)
- 4. Office hour: Friday 3:30 4:30PM or by appointment (The office hour will be performed through Webex. My Webex meeting room number is 587 558 805).
- 5. Prerequisite: Statistical data mining, Regression analysis, Matrix Algebra, Statistical Inference, R programming.

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- **6. Textbook:** No textbook.
- 7. Course topics: Principle of Statistical Modelling; Issues in linear models, Generalized linear models; Data pre-processing & missing data; Dimension reduction techniques; Imbalanced data: Text mining.
- **8. Homework:** Homework will be regularly given.
- **9. Exam:** Midterm exam: 10/21 (Online exam), Final Exam: 12/9 (Online exam). Both exams include theory and data analysis problems using R.
- 10. Grading: Homework(10%) + Midterm Exam(40%) + Final Exam(40%) + Attendance(10%).
- 11. Note: If students are absent 8 times or more, they will receive 'F' regardless of exam scores.