

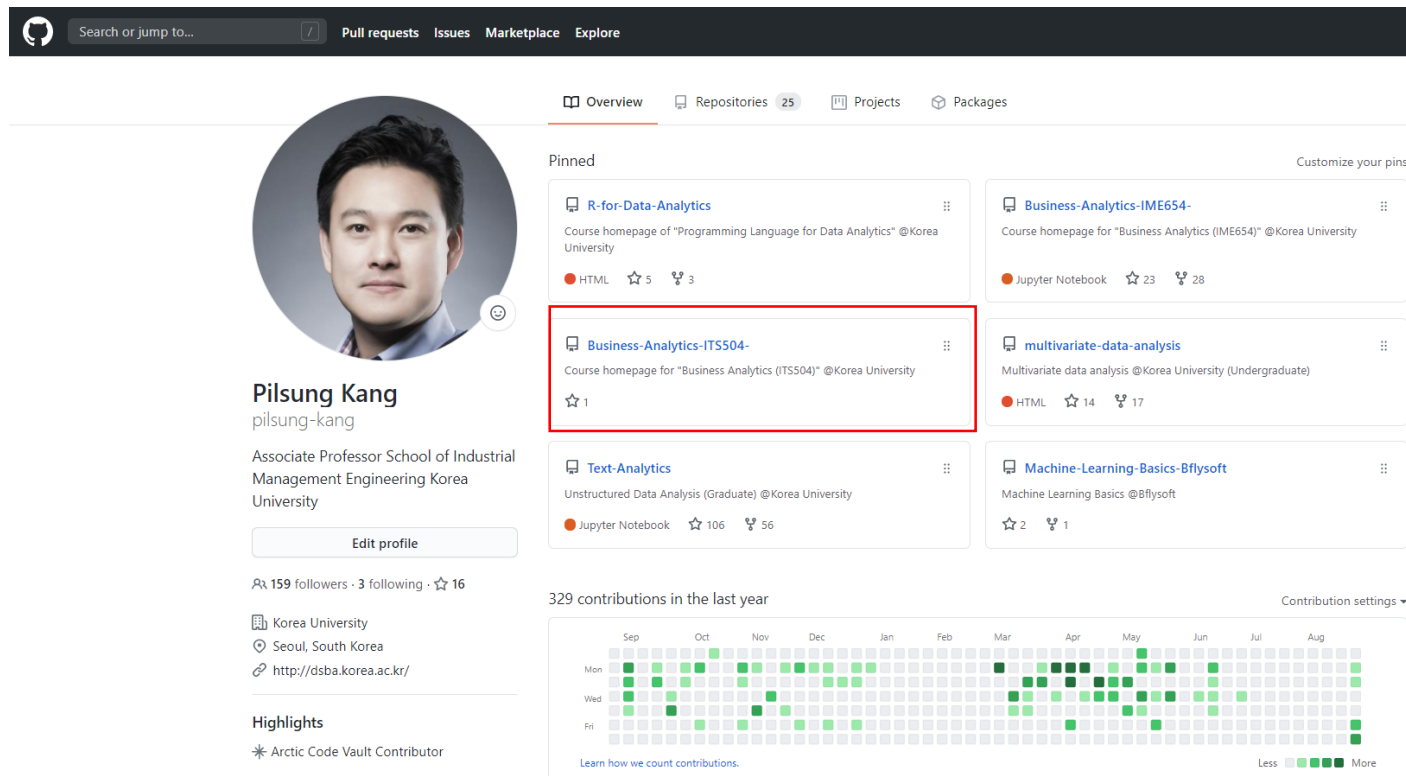
Overview

- Course Description

- ✓ This module aims to provide students with the theoretical and practical knowledge and skills to obtain, modify, and analyze a large amount of data from various sources
- ✓ Topics covered in this module include basic association rules, supervised learning algorithms (classification & regression) such as linear/logistic regression, decision tree, artificial neural networks, and unsupervised learning algorithms (clustering) such as K-Means clustering and hierarchical clustering
- ✓ This module comprises lectures and **lab exercises with R (optional)** to develop the practical skills

Lecturer & Course Homepage

- Pilsung Kang, Associate professor at School of Industrial Management Engineering, Korea University
 - ✓ E-mail: pilsung_kang@korea.ac.kr
 - ✓ Course homepage: <https://github.com/pilsung-kang/Business-Analytics-ITS504->



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Overview Repositories 25 Projects Packages

Pinned

R-for-Data-Analytics
Course homepage of "Programming Language for Data Analytics" @Korea University
HTML 5 3

Business-Analytics-IME654-
Course homepage for "Business Analytics (IME654)" @Korea University
Jupyter Notebook 23 28

Business-Analytics-ITS504-
Course homepage for "Business Analytics (ITS504)" @Korea University
1

multivariate-data-analysis
Multivariate data analysis @Korea University (Undergraduate)
HTML 14 17

Text-Analytics
Unstructured Data Analysis (Graduate) @Korea University
Jupyter Notebook 106 56

Machine-Learning-Basics-Bflysoft
Machine Learning Basics @Bflysoft
2 1

Pilsung Kang
pilsung-kang
Associate Professor School of Industrial Management Engineering Korea University
Edit profile

159 followers · 3 following · 16

Korea University
Seoul, South Korea
<http://dsba.korea.ac.kr/>

Highlights
Arctic Code Vault Contributor

329 contributions in the last year

Contribution settings

Learn how we count contributions.

Less More

Lecturer & Course Homepage

The screenshot shows a GitHub repository page for 'pilsung-kang / Business-Analytics-ITS504'. The repository has 1 branch (master) and 0 tags. The commit history shows a recent update to README.md by pilsung-kang 9 minutes ago, with 28 commits in total. The repository contains files for '01 Introduction to Data Ana...', '2019', '.gitattributes', and 'README.md'. The README.md file is displayed, showing the title 'Business-Analytics-ITS504' and the description 'Course homepage for "Business Analytics (ITS504)" @Korea University'. The 'Notice' section lists links for the course syllabus (Document, Slide, Video) and recommended books. The 'Schedule' section lists topics for the first topic, 'Introduction to Business Analytics', including big data analysis, data science projects, machine learning, and data visualization.

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master 1 branch 0 tags

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About

Course homepage for "Business Analytics (ITS504)" @korea University

Readme

Releases

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Packages

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README.md

Business-Analytics-ITS504

Course homepage for "Business Analytics (ITS504)" @Korea University

Notice

- Course syllabus: ([Document](#), [Slide](#), [Video](#))
- Recommended Books
 - 데이터마이닝 기법과 응용, 전치혁, 한나래아카데미
 - R을 이용한 데이터마이닝, 박창이, 교우사
 - R을 활용한 데이터과학, 개럿 그롤문드, 김설기/최혜민, 인사이트
 - R Cookbook: 데이터 분석과 통계 그래픽스를 위한 실전 예제, 폴 티터, 이제원,

Schedule

Topic 1: Introduction to Business Analytics

- 빅데이터 분석 개요 및 주요 개념 ([Slide](#), [Video](#))
- 데이터과학 프로젝트 절차 ([Slide](#), [Video](#))
- 기계학습 방법론 ([Slide](#), [Video](#))
- 제조업 활용 사례: 가상 계측 모델 개발 ([Slide](#), [Video](#))

Lecture Video

- DSBA Lab Youtube Channel

- ✓ <https://www.youtube.com/channel/UCPq0IcgCcEwhXI7BvcwIQyg>

- Playlist for this course

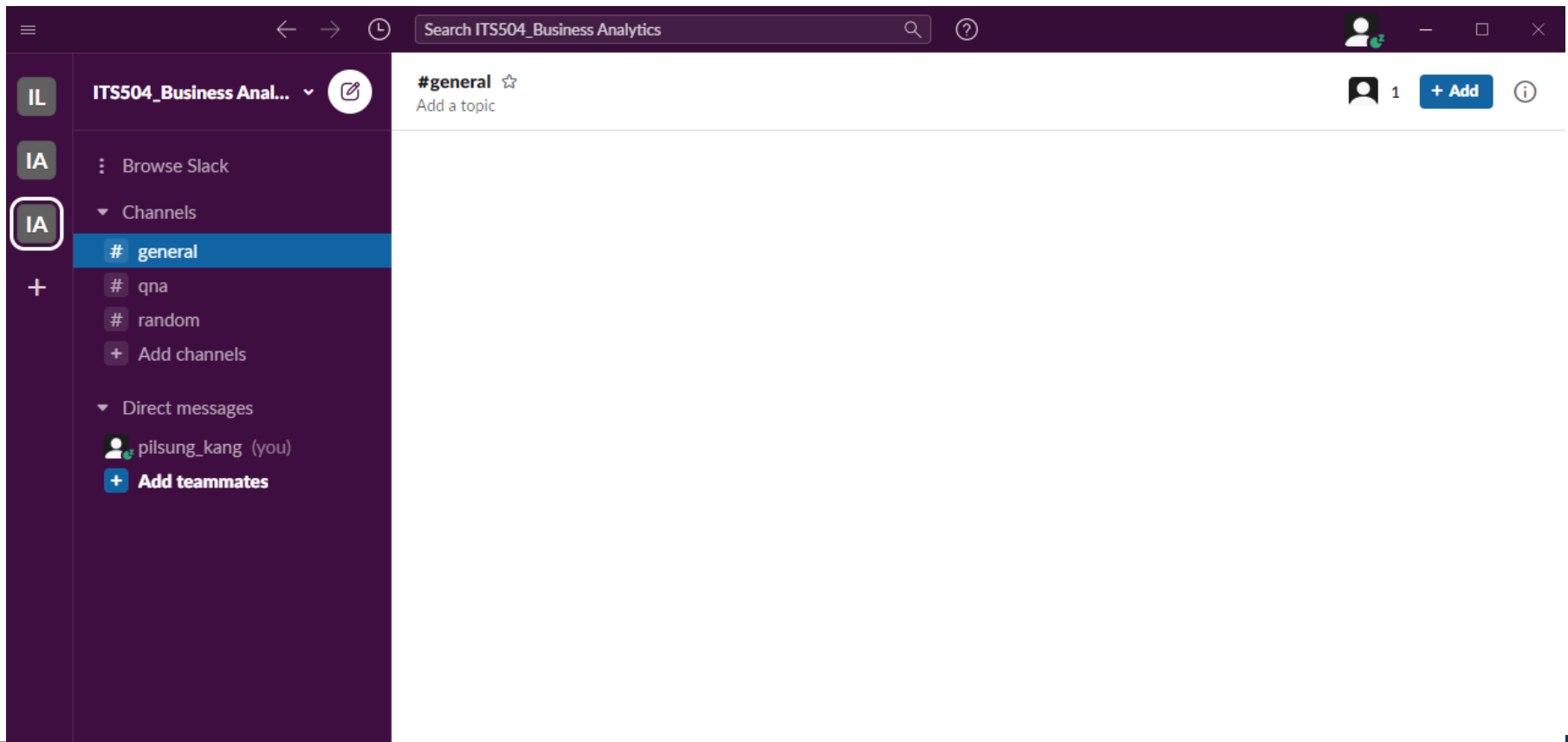
- ✓ <https://www.youtube.com/playlist?list=PLetSIH8YjlfXMOuS4piqzJRvSZorDnNUm&playnext=1&index=1>

The screenshot shows the YouTube channel page for 'KoreaUniv DSBA'. The channel has 1.48 million subscribers. The page displays a grid of video thumbnails. The video '[Korea University] Business Analytics (Graduate, ITS04)' is highlighted with a red box. Below the grid, there are several video titles and their corresponding view counts. The videos are organized into rows and columns, with each thumbnail showing a preview of the video content.

Video Title	View Count
[DSBA] 2020 Paper Review	업데이트: 오늘
[Korea University] Business Analytics (Graduate, IME654)	업데이트: 1월 전
[Korea University] Programming Language for Data Analytics...	업데이트: 2월 전
[Korea University] Business Analytics (Graduate, ITS04)	업데이트: 6월 전
[Korea University] Text Analytics (2020 Spring)	업데이트: 6월 전
[Korea University] Multivariate Data Analysis (2020 Spring)	업데이트: 6월 전
[DSBA] 2019-2 Paper Review	업데이트: 6월 전
[DSBA] 2019-1 Paper Review	업데이트: 6월 전
대우조선해양	업데이트: 6월 전
[DSBA] Related Work Paper Review	업데이트: 6월 전
[DSBA]CS224N	업데이트: 6월 전
국내의 학술대회 발표	업데이트: 6월 전
[DSBA]CS294	업데이트: 6월 전
Business Analytics @Korea University (2017)	업데이트: 6월 전
[DSBA] Oxford Deep NLP 2017	업데이트: 6월 전
[DSBA] CS224d	업데이트: 6월 전
[DSBA] CS231n	업데이트: 6월 전

Communication Channel

- Slack will be used for real-time communication channel
 - ✓ ime504-koreauniv.slack.com
 - ✓ The invitation link will be sent to the enrolled students via e-mail



Lecture Modules & Self-Introduction

- Textbook
 - ✓ No textbook is needed.
 - ✓ Lecture notes (PDF format) and recommended paper lists will be provided.
- Introduce Yourself
 - ✓ Submit your self-introduction slide (max. 5 pages) to the lecturer via E-mail (due date: 2020-09-11)
 - ✓ Required information: Name, department, e-mail, cell phone number, recent photo(s)

Assessments

- 2 Exams (Midterm & Final, 30% each)

- ✓ Two sheets (A4 size) of cheating paper is allowed

- I Final Project

- ✓ Students are required to design “Data Analytics Project” for their own domain

- ✓ Project report must include

- The problem definition
- Description on available data
- Appropriate analytics algorithms and process
- Expected result
- Quantitative and qualitative effect when the designed project succeed

Introduction to Yourself

✓ Submit your self-introduction slide (max. 5 pages) to the lecturer via E-mail

- Due date: 2020-09-11

Schedule

Week	Topics
1	Orientation
2	Multiple Linear Regression
3	R Exercise: Multiple Linear Regression
4	Logistic Regression
5	R Exercise: Logistic Regression
6	Decision Tree
7	R Exercise: Decision Tree
8	Midterm Exam
9	Dimensionality reduction
10	R Exercise: Dimensionality reduction
11	Artificial Neural Network
12	R Exercise: Dimensionality reduction
13	Clustering
14	R Exercise: Clustering
15	Association Rule Mining & R Exercise
16	Final Exam & Project Report Submission