



2020 Fall: Programming Language for Data Analytics

Pilsung Kang

School of Industrial Management Engineering

Korea University

Course Description

- Course Description

- ✓ This course provides a fundamental set of programming language (R) for analyzing various types of data. Students will learn

- The basic syntax of R language
 - How to handle different data types in R
 - How to visualize the data and ways of documentation
 - How to collect data from the Web

- Note

- ✓ This course is originally designed to students who are in the first year at School of Industrial Management Engineering
 - ✓ Student who are in their second, third, or fourth year can enroll this course, but their highest grade will be limited to A (A+ will not be given)

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/R-for-Data-Analytics>

The screenshot shows the GitHub profile of Pilsung Kang. The profile includes a circular profile picture, the name "Pilsung Kang", the username "pilsung-kang", and a bio: "Associate Professor School of Industrial Management Engineering Korea University". Below the bio is an "Edit profile" button. The profile statistics show 158 followers and 3 following. The location is "Seoul, South Korea" and the website is "http://dsba.korea.ac.kr/". The highlights section mentions "Arctic Code Vault Contributor". The pinned repositories section lists five repositories: "R-for-Data-Analytics" (HTML, 5 stars, 3 forks), "Business-Analytics-IME654-" (Jupyter Notebook, 23 stars, 28 forks), "Business-Analytics-ITS504-" (HTML, 1 star), "multivariate-data-analysis" (HTML, 14 stars, 17 forks), "Text-Analytics" (Jupyter Notebook, 106 stars, 56 forks), and "Machine-Learning-Basics-Bflysoft" (2 stars, 1 fork). The contributions section shows a calendar grid for the last year with 319 contributions.

Search or jump to... Pull requests Issues Marketplace Explore

Overview Repositories 25 Projects Packages

Pinned Customize your pins

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

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

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

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

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

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

Pilsung Kang
pilsung-kang
Associate Professor School of Industrial Management Engineering Korea University
Edit profile
158 followers · 3 following · 16 stars
Korea University
Seoul, South Korea
http://dsba.korea.ac.kr/
Highlights
* Arctic Code Vault Contributor

319 contributions in the last year
Contribution settings

Learn how we count contributions.

Lecturer & Course Homepage

R-for-Data-Analytics

Course homepage of "Programming Language for Data Analytics" @Korea University

Syllabus

- [Download](#)

Final Scores

- TBA

Assignments

- Assignment 1
 - Due date: TBA
 - R file with your answer must be submitted via e-mail: dsba.koreauniv@gmail.com
 - Title format: Assignment number, student id, and name
 - Example: R1_202012345_홍길동

Schedule

Data Analytics ([Video](#), [Slide](#))

- What is data analytics?
- What can we do with data analytics?
- Data analytics language: R & Python

Lecture Video


- DSBA Lab Youtube Channel

✓ <https://www.youtube.com/channel/UCPq0IcgCcEwhXI7BvcwlQyg>

- Playlist for this course

✓ https://www.youtube.com/channel/UCPq0IcgCcEwhXI7BvcwlQyg/playlists?view_as=subscriber


Lecture Video




KoreaUniv DSBA
 구독자 1.46천명

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[Korea University] Programming Language for Data Analytics...
 업데이트: 1일 전
 모든 재생목록 보기




[DSBA] 2020 Paper Review
 모든 재생목록 보기




[Korea University] Text Analytics (2020 Spring)
 모든 재생목록 보기




[Korea University] Multivariate Data Analysis (2020 Spring)
 모든 재생목록 보기



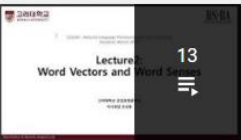
[DSBA] 2019-2 Paper Review
 모든 재생목록 보기




[DSBA] 2019-1 Paper Review
 모든 재생목록 보기




[DSBA] Related Work Paper Review
 모든 재생목록 보기




[DSBA]CS224N
 모든 재생목록 보기




국내외 학술대회 발표
 모든 재생목록 보기



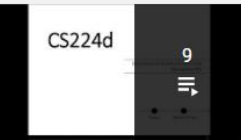
[DSBA]CS294
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Business Analytics @Korea University (2017)
 모든 재생목록 보기



[DSBA] Oxford Deep NLP 2017
 모든 재생목록 보기



[DSBA] CS224d
 모든 재생목록 보기



[DSBA] CS231n
 모든 재생목록 보기

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Lecture Video

dsba

로그인

PowerPoint - Microsoft PowerPoint - Adobe Acrobat Reader DC

파일을 열기, 편집, 보기, 서명, 창, 도움말

도구 PowerPoint 프레젠테이션

1 / 26

111%

R Studio

R & RStudio Installation

Pilsung Kang

School of Industrial Management Engineering

Korea University

02-2: R and RStudio Installation

조회수 34회 · 2020. 8. 27.

0

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공유

저장

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구독자 1.46천명

고려대학교 산업경영공학부

2020년도 2학기

구독

[Korea University] Programming Language for Data AI

KoreaUniv DSBA - 1 / 1

02-2: R and RStudio Installation

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12:38

다음 동영상

자동재생

ReMixMatch

FixMatch

1:02:10

[Paper Review] ReMixMatch & FixMatch : Consistency-based...

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조회수 372회 · 2개월 전

Geometry Learning

1:17:49

[Paper Review] Knowledge graph representation for...

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조회수 205회 · 1개월 전

Science Details

52:07

[Paper Review] Open Information Extraction (Open IE)

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조회수 184회 · 2개월 전

DBSCAN

22:38

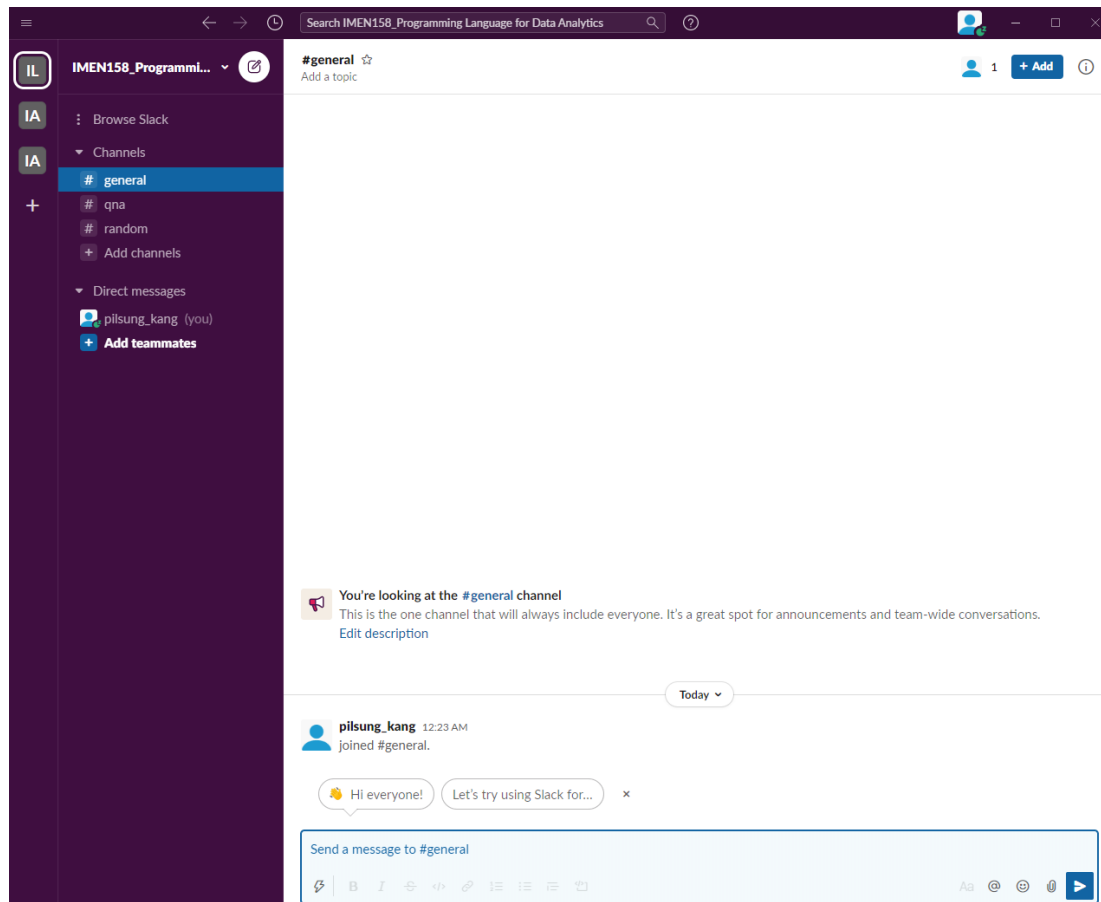
[Paper Review] Multimodal Transformer for Unaligned...

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조회수 158회 · 2개월 전

Communication Channel

- Slack will be used for real-time communication channel
 - ✓ imenl58-koreauniv.slack.com
 - ✓ The invitation link will be sent to the enrolled students via e-mail



Lecture Modules & Self-Introduction

- Textbook
 - ✓ All necessary materials (lecture slides, R scripts, datasets) are provided through the course homepage.
- 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)
- Assessment
 - ✓ 5 assignments (20% each)

Schedule

Week	Topics
1	Orientation
2	R and RStudio Installation, Data Types and Strings 1
3	Data Types and Strings 2
4	Data Types and Strings 3
5	No Class (Holiday)
6	Conditions, Loops, and Functions 1
7	Conditions, Loops, and Functions 2
8	No Class (Midterm exam period)
9	R graphics 1
10	R graphics 2
11	Documentation
12	Data Collection from the Web 1
13	Data Collection from the Web 2
14	Data Collection from the Web 3
15	Data Manipulation 1
16	Data Manipulation 2