DSI

Data Science Innovated

Learn. Share. Grow.

What we are trying to achieve?

The purpose of this student organization is to promote the learning and dissemination of topics related to data science including, but not limited to, statistical methodology, machine learning, interpretation, and data projects.

A secondary goal of this organization is to facilitate campus-wide collaboration and potentially promote professional development by involving interested community members at large.

Learn. Share. Grow.

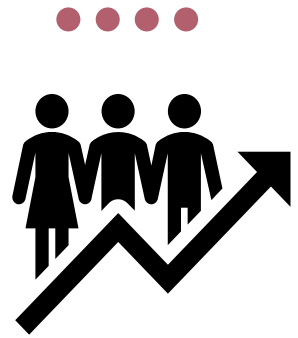
Learn data science through coding:

Coding is often seen as the scariest aspect of data science application, but it doesn't have to be that way. While you'll need to understand what to do with the data, and how to interpret the results, programming language such as C, Python or package-based software such that R can make this process as smooth and as easy as possible.

Sharing industry knowledge:
Students and professionals from a broad range of majors and industries will help each other to understand relevant problems and variables from their respective fields. We hope the interdisciplinary collaboration among students will broaden the scope of research in respective fields.

Building network:

we are motivated to grow our network beyond the campus or the city, which will create an opportunity to meet new industry people and prepares members for jobs related to data science.



How to accomplish our objective:

- Attend classroom workshop.
- Share information (present/invite)
- Build network.

WELCOME TO DATA SCIENCE INNOVATED

- **What is Data Science? It's more than a buzzword.**
  - Better question: What isn't?
  - Anything from collection, management, interpretation, analysis, you name it
- **Why Should I care?**
  - You will likely come across some data science problem in your everyday life
  - Money's not important but it makes the list ;)

Data Science Innovated (DSI): Meet the Board

Faculty Advisor:

Dr. Kaushik Ghosh

Associate Professor, Biostatistics

- **President: Anjan Mandal**

  PhD student in Department of Mathematical Sciences, specializing in Statistics
  - Current Research: In Vivo fiber tractography using DT-MRI data.

- **Vice President: Edward Huynh,**

  M.S. student in Department of Mathematical Sciences, specializing in Statistics
  Current Research: Joint work with Vince Choi for image stitching using neural networks

- **Secretary: Bowen Liu**

  PhD student in Department of Mathematical Sciences, specializing in Statistics
  - Current Research: Detection of gene-to-environment interaction using biostatistical methods

- **Chief Marketing Official: Vince Choi**

  PhD student in Department of Computer Science
  Current Research: Joint work with Edward Huynh for image stitching using neural networks

- **Resource Developer: Blake Hament**

  PhD student in Department of Engineering, specializes in Robotics
  Current research: Joint work with Kemil Herath in machine learning implementation in robotics

- **Assistant Resource Developer: Kemil Herath**

  M.S. student in MIS in Department of Management, Entrepreneurship, and Technology
  Current Research: Joint work with Blake Hament in machine learning implementation in robotics

CONNECT WITH US!

dsinnovated@gmail.com

/dsinnovated

We don't discriminate – Non-discrimination Clause

The University of Nevada, Las Vegas is an academic community in which all persons share responsibility for its quality and well-being. As members of the university community, students can reasonably expect all of the guarantees and protections afforded students at public institutions by the United States and Nevada Constitutions. Following is a listing of some of the student rights as outlined in the UNLV Student Conduct Code. Refer to the UNLV Student Conduct Code for a complete listing.

I. The right to exercise their freedoms without fear of university interference.

II. The right to be free from discrimination on the basis of race, gender, age, religion, creed, national origin, disability, or sexual orientation.

III. The right to engage in inquiry and discussion, to exchange thought and opinion, and to speak, write, and print freely on any subject in accordance with the guarantees of federal and state laws.

IV. The right to engage in peaceful and orderly speech, protest, demonstration, and picketing within the public forum to the extent that such activity does not disrupt the educational functions of the university. The university reserves the right to approve the time, place, and manner of such activities.

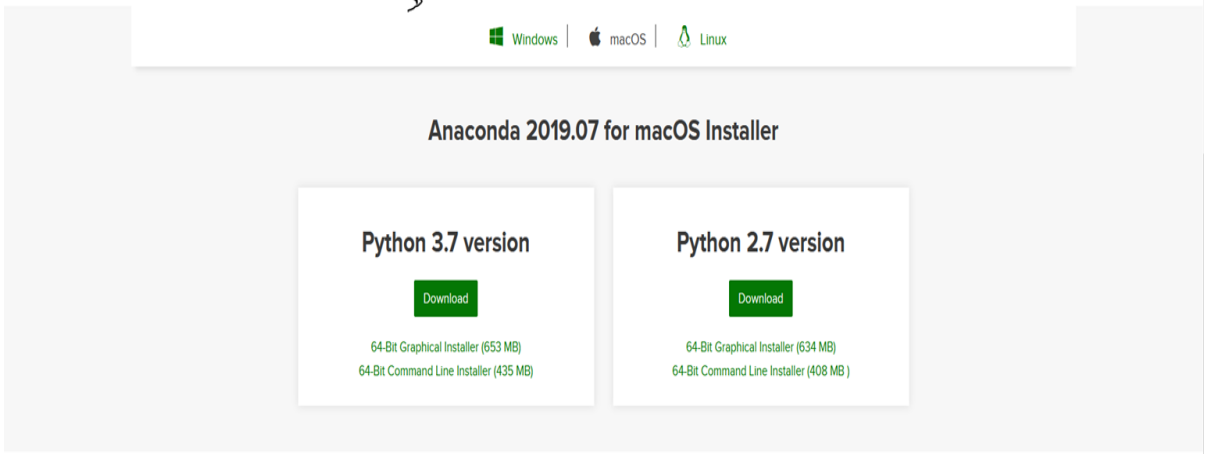
V. The opportunity to participate in the formulation of policy directly affecting students through membership on appropriate committees as determined by the President of the University, CSUN, and other recognized groups within the university.

VI. Ready access to established University policies and procedures.

What we want from you guys (you knew this was coming)…

- Bring your laptops!!
  - Coding opportunities
- Bring your personality!!
  - Networking opportunities
- Bring your enthusiasm!!
  - Enjoy the experience

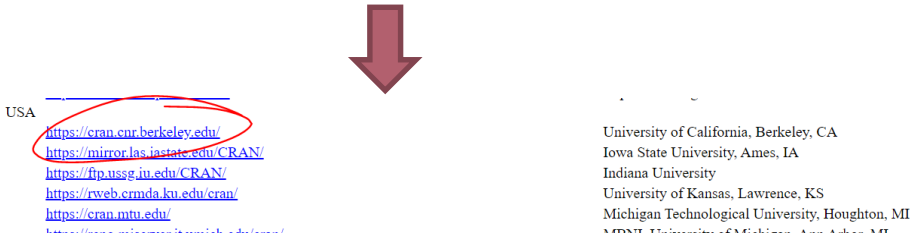
(1)
Downloading a Python Environment



https://www.anaconda.com/distribution/#download-section

(2)
Downloading R environment

https://www.r-project.org/



Downloading R studio

https://www.rstudio.com/products/rstudio/download/

We love democracy! – Board Membership Elections

Elections will be handled on a yearly (tentative) basis to select officers for the following year. These elections will be announced later during regular club meeting times.

Note: outgoing officers must follow the guidelines provided in the RSO handbook while transitioning into the new board leadership.

But what are we doing each day??

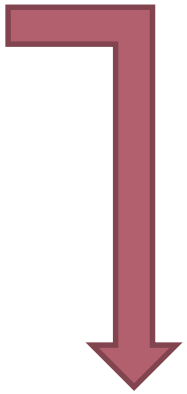
Our agenda for each organizational meeting will be sent out by email. Make sure to check your email!

Check our involvement center page too!

https://unlv.campuslabs.com/engage/organization/odssl

When and where are we meeting again?

- **Where?** Will be announced a week prior, but currently CBC-A110
- **When?** 6PM – 8PM (bi-weekly) (tentative)
- The schedule represents our current (tentative) meeting days for Fall 2019
- **Any changes to the schedule will be communicated by email**



September	October	November	December
9/13	10/11	11/8	12/6
9/27	10/25	11/22	

Typical DSI sessions

The structure of a DSI session

- **Length:** about 1-2 hours
- **Content:**
  - Each meeting will have a speaker that will do a short lecture which will include
    - A working lesson on theory.
    - Followed by examples and a “hands-on” portion that will allow members to apply the aforementioned topic.
    - Interpretation of the result in terms of the problem in hand

- **The speaker will present according to the following layout:**
  - Provide a brief introduction on the methods/algorithm along with the topic
  - Designate a coding language to use for the lecture. (R or Python)
  - Provide a problem set that will allow members to apply the topic
  - Provide a list of solutions to the questions at the end of the “hands-on” module
  - Provide the code used in the session to the club organizers so that they can keep it on the club shared drive

Topics for DSI sessions

- For 9/13 meeting, President Anjan Mandal will provide a brief introduction to Regression
  - Make sure you download R and Python!!
- For 9/27 meeting, Members Blake Hament and Kemil Herath will continue with Regression
- We will update members by email of the topic(s) that will be covered in the future meetings

- We also encourage topic submissions by fellow members
  - If someone wants to present any topic, please email us beforehand or speak to us in person
  - Don’t be afraid to share what you’ve been doing this semester!

Suggestions & feedback

If you have any questions/suggestions, please come talk to us at the meetings, or email us at:

dsinnovated@gmail.com

Member Introductions!