

Data Science Course Overview



GENERAL ASSEMBLY

Agenda

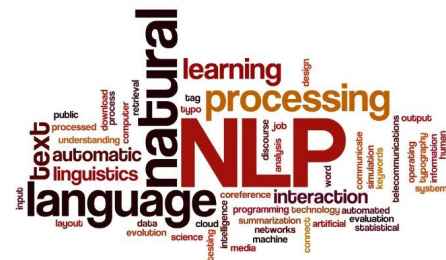
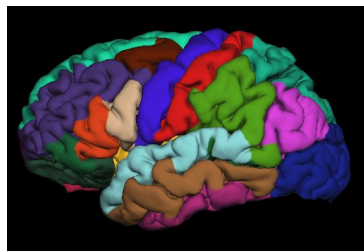
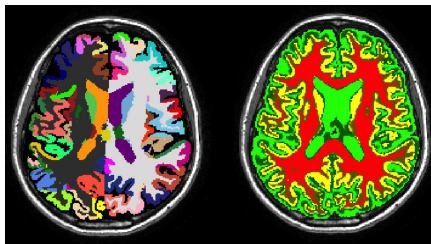
- I. Meet Your Instructors
- II. Instructor Philosophy
- III. Content Philosophy
- IV. How To Succeed
- V. Typical Class
- VI. Logistics
- VII. Questions?

Meet Your Instructors

Anthony Ta - Instructor  **TECHINASIA**

Jia Qing Yap - TA

About me



Jia Qing - TA

- Took a leave of absence from law school just to learn deep learning and robotics
- Executive lead for an Open-source Self-driving Car project
- Self-driving Car Engineering mentor
- General Assembly DAT2 student
- SGInnovate Portfolio Company Growth team

Instructor Philosophy

- Embrace diversity
- Seek an optimal pace
- Communicate early and often
- Success is not a grade

Content Philosophy

- Application-based approach
- Understand key principles
- Balance depth with breadth
- Course project

How To Succeed

- Effort not prior knowledge
- Ask questions
- Read documentation, make documentation
- Communicate what you've learned
- Help your classmates
- Be patient with yourself
- Get your hands dirty



Typical Class

- Lecture
- Code walk-throughs
- Code exercises
- Discussion of homework and readings

UNITS

UNIT 1: RESEARCH DESIGN AND EXPLORATORY DATA ANALYSIS

› What is Data Science	Lesson 1
› Research Design and Pandas	Lesson 2
› Statistics Fundamentals I	Lesson 3
› Statistics Fundamentals II	Lesson 4
› Flexible Class Session	Lesson 5

UNIT 2: FOUNDATIONS OF DATA MODELING

› Introduction to Regression	Lesson 6
› Evaluating Model Fit	Lesson 7
› Introduction to Classification	Lesson 8
› Introduction to Logistic Regression	Lesson 9
› Communicating Logistic Regression Results	Lesson 10
› Flexible Class Session	Lesson 11

UNIT 3: DATA SCIENCE IN THE REAL WORLD

› Decision Trees and Random Forests	Lesson 12
› Natural Language Processing	Lesson 13
› Dimensionality Reduction	Lesson 14
› Time Series Data I	Lesson 15
› Time Series Data II	Lesson 16
› Database Technologies	Lesson 17
› Where to Go Next	Lesson 18
› Flexible Class Session	Lesson 19
› Final Project Presentations	Lesson 20

We will be flexible!

Logistics

- Start and end on time
- Missing class
- Slack instead of email
- Office hours
- GitHub (+Google Drive) for course content and homework

Questions?

