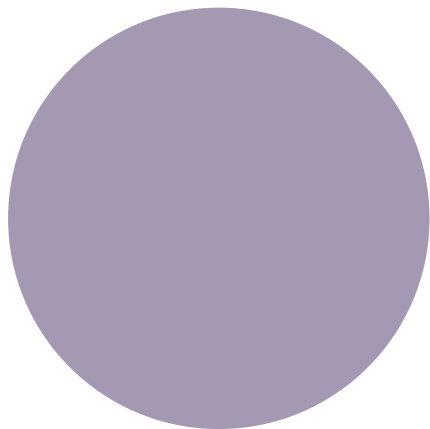


10/11/2022

Phase 2 Expectations

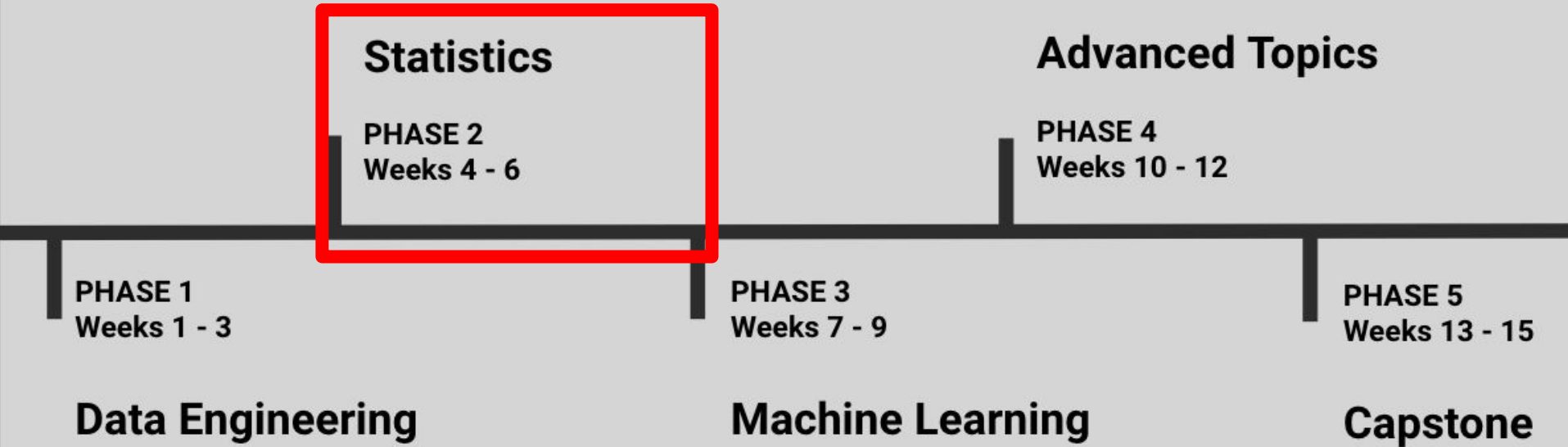
// FLATIRON SCHOOL

Agenda

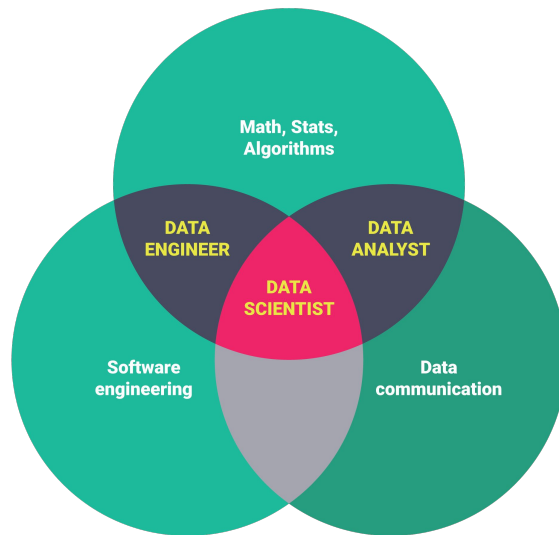


- 1. Phase 2: Overview**
- 2. Week 1 & 2**
- 3. What to Expect**
- 4. Assignments and Code Challenge**
- 5. Questions**

Overall Phase Timeline



Why Statistics Matters



- Inference: Core DS Skill
- Framework of confidence
- Technical Interviews
- Solid foundation for ML



Josh Wills

@josh_wills



Follow

Data Scientist (n.): Person who is better at statistics than any software engineer and better at software engineering than any statistician.



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9:55 AM - 3 May 12

Fundamentals of Statistics \Rightarrow Our First ML Models

WEEK 1

Probability and Statistics

- Set Theory and Probability
- Sampling
- Distributions
- Hypothesis Testing
- Statistical Significance
- z-Test, t-Test, ANOVA

WEEK 2

Linear Regression Models

- Correlations
- Simple Linear Regression
- R^2 and coefficients
- Assumptions of LR
- Multiple LR
- Transformations

What to Expect: Phase 2



More Concepts Slightly Less Code

- ❖ Conceptual framework
- ❖ Formulas (memorization not required)
- ❖ Translate concepts to code

I DON'T Expect Immediate Understanding

- ❖ Especially with formulas
- ❖ Fill in as we progress
- ❖ Will revisit concepts

Complete Understanding Takes Years

- ❖ Advance degrees in mathematics/statistics
- ❖ Code Challenge focused on core concepts
- ❖ Building support structure for phase 3 + 4

What did we do well in Phase 1?

As Cohort

-

As Instructor/Coach

-



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What can we do better in Phase 2?

As Cohort

-

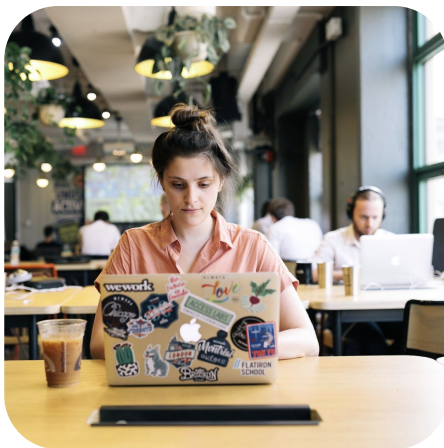
As Instructor/Coach

-



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Assignments & Due Dates



Blog - Checkpoints - Code Challenge

CP - Tuesday 03/14 - Probability

CP - Friday 03/17 - Hypothesis Tests

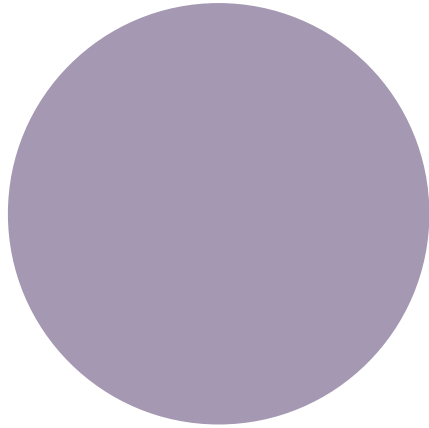
BLOG - Tuesday 03/21

CP - Tuesday 03/21 - Bayesian

CP - Thursday - 03/23 - Linear Reg

CC - Friday 03/24

Blog Post Phase 2



Pick a data science tool/library/package that you would like to learn more about, and write a blog post summarizing it. Examples could include things we have seen in class already or maybe a new one. If you have an alternative idea, run it by me first please. Potential elements to address:

- I. What problem is this tool/library designed to solve?
- II. How well does this tool/library solve that problem?
- III. What are the main alternatives or competitors to this tool/library?
- IV. Who originally made, and who currently maintains, this tool/library?
- V. Links to documentation and/or tutorials for this tool/library
- VI. Links to examples of projects or blog posts that use this tool/library

**Questions,
Thoughts,
Comments?**

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