10/11/2022

Phase 2 Expectations

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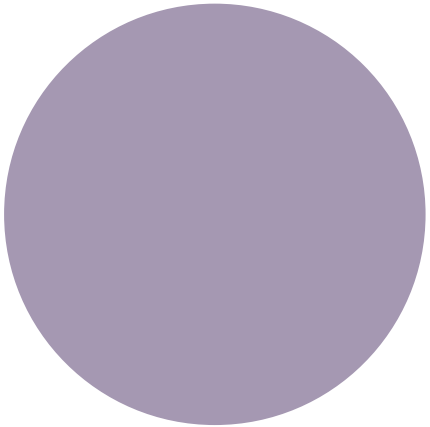
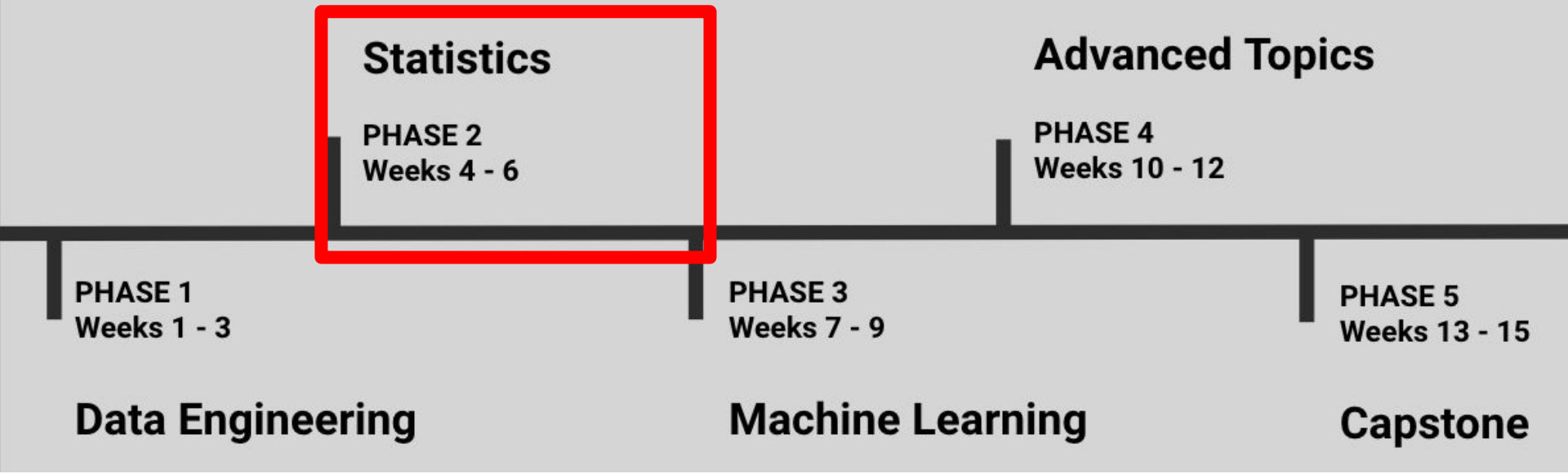
Agenda

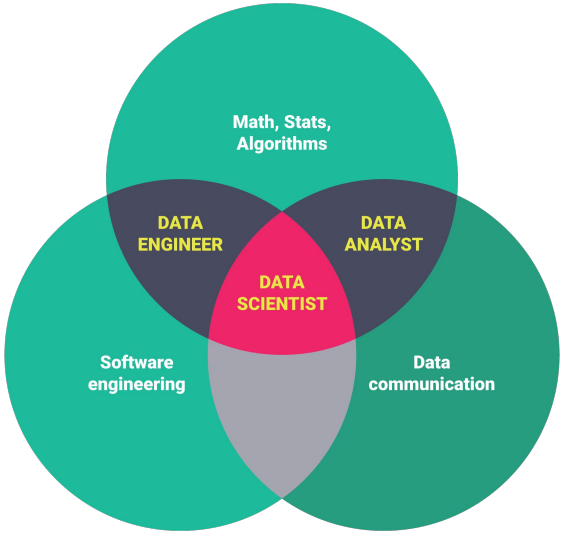


1. Phase 2: Overview
2. Week 1 & 2
3. What to Expect
4. Assignments and Code Challenge
5. Questions

Overall Phase Timeline



Why Statistics Matters



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

Josh Wills
@josh_wills

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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 ⇒ 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

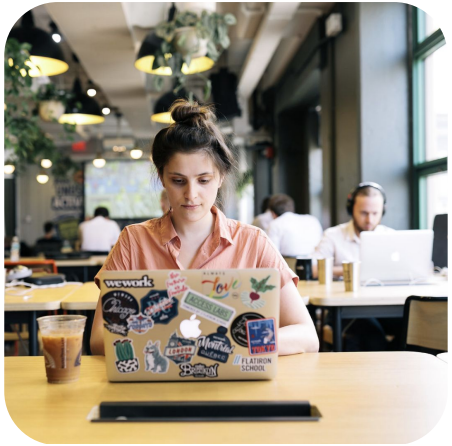
What did we do well in Phase 1?

As Cohort	As Instructor/Coach

What can we do better in Phase 2?

As Cohort	As Instructor/Coach

Assignments & Due Dates



Blog - Checkpoints - Code Challenge

CP - Wednesday 10/12

CP - Monday 10/17

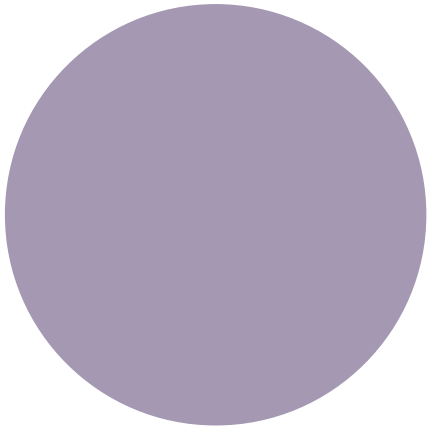
BLOG - Tuesday 10/18

CP - Wednesday 10/19

CP - Thursday 10/20

CC - Friday 10/21

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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