

Phase 4

Expectations

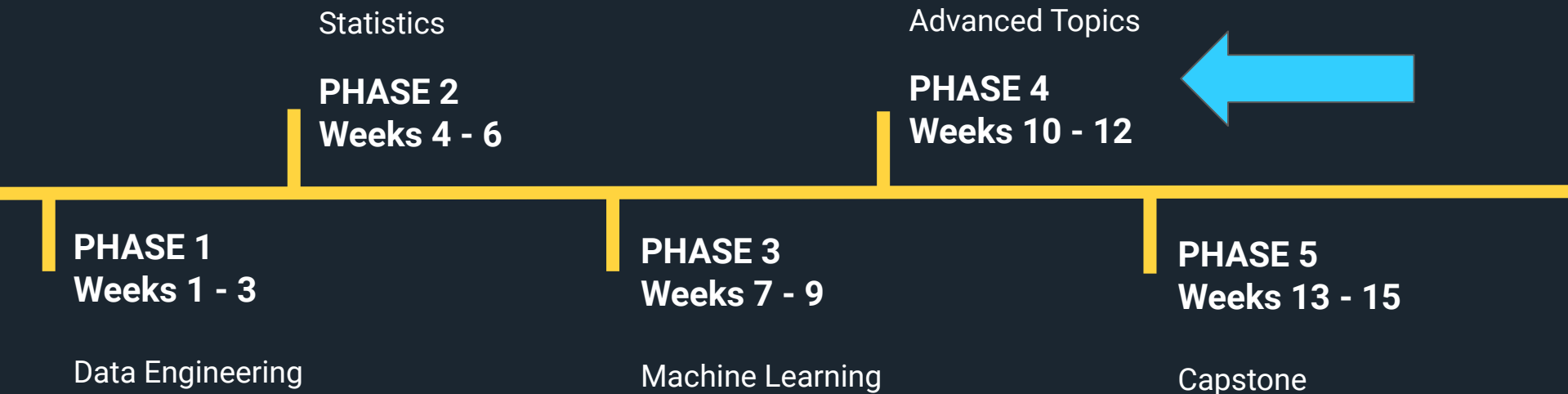
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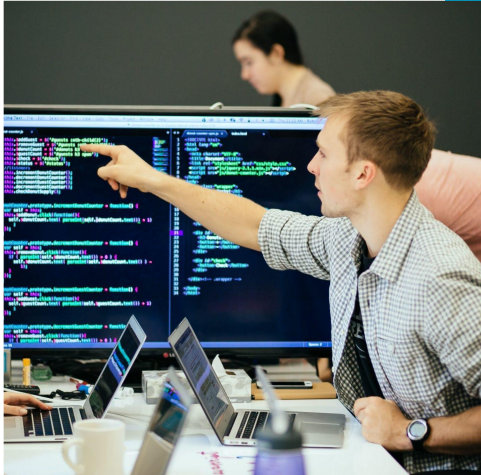
Agenda

- Timeline
 - Capstone coming up
- New tools/algorithms
- New data types
- Advance models

Overall Phase Timeline



Capstone Brainstorm



Answer the following questions for three (3) capstone ideas:

- What real-world problem would your project aim to solve?
 - What data do you plan to use and what would be your target variable(s)
 - What methods would you use to model the data, and what would be the final product(s)?
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- Due **Monday 01/15 EOD**
 - Why three? So you have backup options!
 - Schedule 1:1 Check Ins in Week 2 to connect and discuss
 - Full Capstone proposal due Day 1 of Phase 5 (01/29)

Tasting Menu of New Topics



New Tools

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Models

- K-Nearest Neighbor
- Random Forest
- Ensemble
- Boosting

Data

- Text data (NLP)
- Ratings data
- Image data

Techniques

- Grid Searching
- Pipelines
- Clustering
- PCA

Packages

- Surprise
- NLTK
- Tensorflow/Keras

Measuring Student Progress

Blog Post

Due 2nd **Tuesday** of Phase 4 (01/16)

- Summarize a data science research paper/project
- Write another technical tutorial

Checkpoints + Canvas

- Unsupervised ML Checkpoint: **Friday 01/12**
- NLP Checkpoint: **Tuesday 01/16**
- Tensorflow Checkpoint: **Thursday 01/18**

Code Challenge

Friday 01/19

- Pipelines
- Ensemble Models
- Unsupervised Machine Learning
- Natural Language Processing

Phase 4 Project

Options!

- Choose your own data
- Recommendation System
- Twitter Data
- Image Classification

Phase 4

Pick a research paper/case study about data science and write a blog post to explain it to a non-technical business stakeholder. This can be a new paper from the past few months, or you can refer to [this spreadsheet](#) for a list of historical papers. Potential elements to include:

- I. What was the original context of this paper when it was written?
- II. Summary of the paper findings/outcomes
- III. How can this paper inform your work as a junior data scientist?
- IV. Why is this paper important/why does it matter to a non-technical business stakeholder?

Feelings at the Start of Phase 4



Confident about what's
going on...kind of



Frustrated by ongoing
"beginner" mistakes



Overwhelmed by studying
new concepts while
fleshing out capstone.

Feelings at the End of Phase 4



Cautiously optimistic when things start to “click”



Struck by the reality of the bootcamp ending



Prepared to get started on capstone



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