



**METIS**

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**Welcome to Metis  
Live Online!**

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# The Immersive Course Model

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1. Training
2. Repetition
3. Culture & Community



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# 1. Training

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# Summary



Metis immersive courses are built around **measurable learning objectives** which are put into practice by **real-world data projects** and **frequently assessed** throughout the course.

## Completion Requirements

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In order to successfully complete the course, students are required to:

- Complete a project with a score of 15 or above (refer to the [project introduction](#) and [project success guide](#))
- ► Pass two multiple-choice assessments on the course learning objectives (click to expand)

# Measurable Learning Objectives



## Web Scraping

1. Correctly describe the purpose and applications of python scraping libraries, including their respective strengths and limitations.
2. Demonstrate proficiency in web scraping syntax, successfully leveraging it to navigate HTML hierarchy and extract information from it.

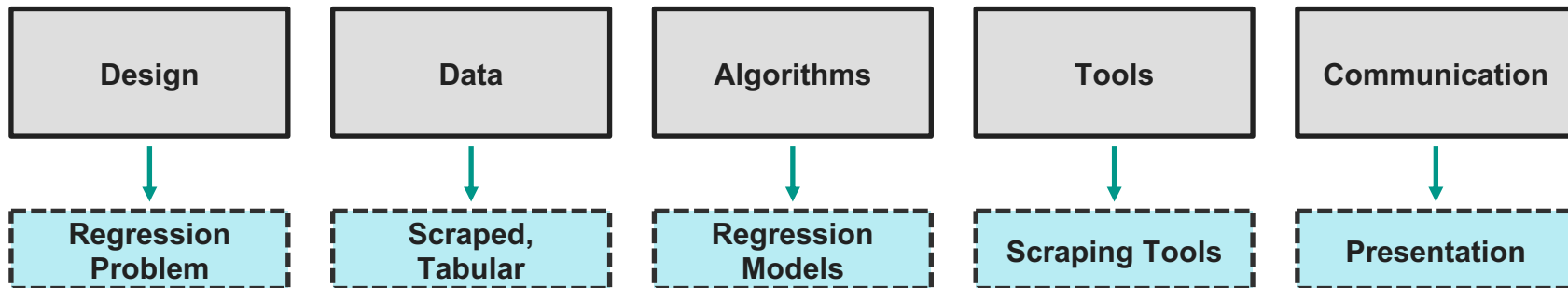
# Put into Practice by Projects



## Regression Course Project Introduction

### Summary:

Using data scraped from a website, build linear regression models that address a useful prediction and/or interpretation problem in any domain of interest such as movies or sports. Communicate your process and findings in a 5 minute presentation (to the entire class at the end of week 2) and a short written description.



# And Frequently Assessed



## Daily Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1	<ul style="list-style-type: none"><li>• Machine Learning Intro</li><li>• Linear Regression Theory Intro</li><li>• Project Introduction</li><li>• Regression Project Workflow</li></ul>	<ul style="list-style-type: none"><li>• Pair: html</li><li>• Web Scraping BeautifulSoup</li><li>• Linear Regression Evaluation</li><li>• Data Types</li></ul>	<ul style="list-style-type: none"><li>• Pair: regex</li><li>• Web Scraping Selenium</li><li>• Linear Regression Code Intro</li></ul> <hr/> <b>Project Proposal / Scope Meeting Due EOD</b>	<ul style="list-style-type: none"><li>• Pair: linear regression practice</li><li>• Bias-variance tradeoff</li><li>• Cross Validation</li></ul> <hr/> <b>Assessment Part 1</b>	<ul style="list-style-type: none"><li>• Pair: noise</li><li>• Feature Engineering Regression</li></ul>
Week 2	<ul style="list-style-type: none"><li>• Pair: regression + feature practice 1</li><li>• Regularization</li></ul> <hr/> <b>Finalize Scraping over weekend</b>	<ul style="list-style-type: none"><li>• Pair: lasso practice</li><li>• Linear Regression Assumptions</li><li>• Time Series</li></ul> <hr/> <b>MVP Due EOD</b>	<ul style="list-style-type: none"><li>• Pair: regression + feature practice 2</li><li>• Stochastic Gradient Descent</li></ul> <hr/> <b>Assessment Part 2</b>	<ul style="list-style-type: none"><li>• Pair: regression model review</li><li>• Project Prep</li></ul>	<b>Slides, Writeup, Code Due 9:00 am, Presentation Day</b>





## 2. Repetition

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# Repetition: Review-Oriented Schedule



## Daily Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1	<ul style="list-style-type: none"><li>• Machine Learning Intro</li><li>• Linear Regression Theory Intro</li><li>• Project Introduction</li><li>• Regression Project Workflow</li></ul>	<ul style="list-style-type: none"><li>• Pair: html</li><li>• Web Scraping BeautifulSoup</li><li>• Linear Regression Evaluation</li><li>• Data Types</li></ul>	<ul style="list-style-type: none"><li>• Pair: regex</li><li>• Web Scraping Selenium</li><li>• Linear Regression Code Intro</li></ul> <hr/> <p>Project Proposal / Scope Meeting Due EOD</p>	<ul style="list-style-type: none"><li>• Pair: linear regression practice</li><li>• Bias-variance tradeoff</li><li>• Cross Validation</li></ul> <hr/> <p>Assessment Part 1</p>	<ul style="list-style-type: none"><li>• Pair: noise</li><li>• Feature Engineering Regression</li></ul>
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- Focus on practicing techniques
- Focus on reinforcing new concepts

# Repetition: Consistency Across Courses



Metis immersive courses are **consistent in structure and requirements**

## Daily Schedule

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Week 1	<ul style="list-style-type: none"><li>Machine Learning Intro</li><li>Linear Regression Theory intro</li><li>Project Introduction</li><li>Regression Evaluation</li><li>Project Workflow</li></ul>	<ul style="list-style-type: none"><li>Pair: html</li><li>Web Scraping BeautifulSoup</li><li>Linear Regression Evaluation</li><li>Data Types</li></ul>	<ul style="list-style-type: none"><li>Pair: regex</li><li>Web Scraping Selenium</li><li>Linear Regression Code Intro</li></ul> <hr/> <b>Project Proposal / Scope Meeting Due EOD</b>	<ul style="list-style-type: none"><li>Pair: linear regression practice</li><li>Bias-variance tradeoff</li><li>Cross Validation</li></ul> <hr/> <b>Assessment Part 1</b>	<ul style="list-style-type: none"><li>Pair: noise</li><li>Feature Engineering Regression</li></ul>
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## Daily Schedule

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Week 1	<ul style="list-style-type: none"><li>KNN Classification</li><li>Project Introduction</li><li>Classification Workflow</li></ul>	<ul style="list-style-type: none"><li>Pair: Nearest Wookiee Neighbors</li><li>Logistic Regression</li></ul>	<ul style="list-style-type: none"><li>Pair: Logistic Classification Metrics</li><li>MLE (optional)</li><li>GLM (optional)</li></ul> <hr/> <b>Project Proposal / Scope Meeting Due EOD</b>	<ul style="list-style-type: none"><li>Pair: Classification Metrics</li><li>Classification And Regression Trees</li></ul> <hr/> <b>Assessment Part 1</b>	<ul style="list-style-type: none"><li>Pair: Bootstrap</li><li>Feature Engineering Classification</li></ul> <hr/> <b>Finalize Data Acquisition by EOD</b>
Week 2	<ul style="list-style-type: none"><li>Pair: Factorial</li><li>Class Imbalance</li><li>Ensembling</li></ul>	<ul style="list-style-type: none"><li>Pair: Boost</li><li>XGBoost</li></ul> <hr/> <b>MVP Due EOD</b>	<ul style="list-style-type: none"><li>Pair: Coins</li><li>Bayes Theorem</li><li>Naive Bayes</li><li>Model Complexity (optional)</li></ul> <hr/> <b>Assessment Part 2</b>	<ul style="list-style-type: none"><li>Pair: Models</li><li>Model Linearity (optional)</li><li>Project Prep</li></ul>	<b>Slides, Writeup, Code Due 9:00 am, Presentation Day</b>

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# 3. Culture, Community, & Resources

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# During a Metis course, you will have...



- Focused Time
- Peer & Community Support
- Experienced Instructors
- Industry Leading Curriculum

# Instructor and Peer Collaboration



## Daily Schedule

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- Daily live instruction
- Daily pair programming exercise with peers
- Daily instructor support for 1-1 help

# Culture: Inclusivity



**Metis is committed to promoting an  
inclusive learning environment**

**Diversity of backgrounds**

**All voices heard**

**Community of respect**

# Culture: Overcoming Obstacles



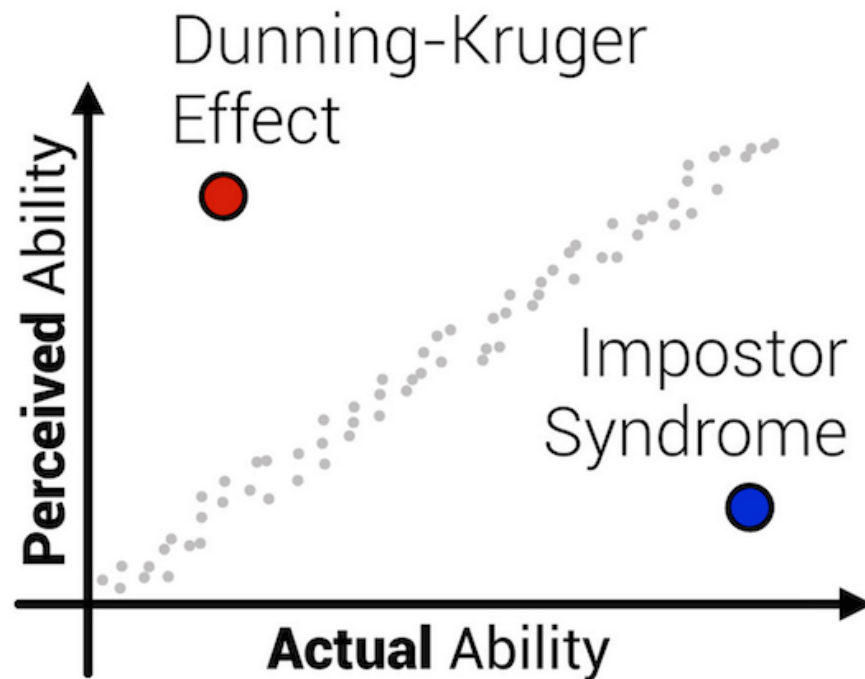
**You must overcome two things:**

**1. Imposter Syndrome**

**2. Perfectionism**



# Culture: Imposter Syndrome



# Culture: Imposter Syndrome



**You must overcome two things:**

## **1. Imposter Syndrome**

Collaboration

Communication

## **2. Perfectionism**

# Culture: Perfectionism



**You must overcome two things:**

## **1. Imposter Syndrome**

Collaboration

Communication

## **2. Perfectionism**

Unfairly short deadlines

Jumping into the unfamiliar

# Community: Becoming a Data Professional



**Mixture of individual and collaborative work**

**Instructors, Program Manager**

**Career Advisor support and hiring partners (for those doing a Bootcamp track)**

**Metis alumni network**



“ ”

*“The classroom instruction, project work, and resources offered through the career counseling and continued alumni support is invaluable. I was exhausted every day, but I woke up looking forward to every day.”*

**– Metis Alumni**