Bootcamp Info Sheet

Instructor

Name: *Joy Hopkins*

Bio: *Joy Hopkins (she/they) has more than 15 years experience in education. After an extensive career in the nonprofit sector, they transitioned to tech about 9 years ago. Joy has a deep background in the performing arts which is the foundation for both their communication and project management skills. Their data science expertise and passion lie primarily in data literacy, visualization, and storytelling. Joy has a Bachelor's degree from James Madison University and a Master's degree from American University.*

Bootcamp Details

Bootcamp Title: *Data Literacy for All*

Number of Days: *4*

Hours per Day: *3*

Type of Instruction: *Lecture with hands-on exercises, chat, and polling questions*

Description: *This course is an introduction to the what, why, and how of data science intended for learners with little to no prior familiarity. Learners will discuss the role that data and analytics play in modern organizations and track data from collection through preparation and visualization all the way through modeling and reporting. By the end of this course, learners will have begun to understand the components of a robust data culture, how data is used in accomplishing goals, and how to identify allies with expertise to assist with data-driven tasks.*

Target Audience: *Learners seeking to grasp the fundamental concepts, tools, and applications of data analysis within modern organizations.*

Technologies: *Learners need to be able to access Zoom and be able to open PDF files (class slides and participant guide).*

Prerequisites: *This course is designed for people who work with business and policy data, and for those who appreciate the importance of engendering a data driven culture throughout their organization. The course is not designed for people who work in data analytics areas.*

Student References: *Class slides and participant guide with description of class activities.*

Bootcamp Syllabus

Day 1:

- Fundamentals of data
- Data analytics overview
- Data governance
- Data teams
- Data tools

Day 2:

- Data-driven cultures
- Putting together a project
- Foundational data science methods

Day 3:

- Foundational ML methods
- Advanced ML methods

Day 4:

- AI methods
- Refining a data project
- Intro to data visualization
- Best practices in data viz