Bootcamp Info Sheet

Instructor

Name: *Joy Hopkins (she/they)*

Bio: *Joy 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: *Foundations of Data and AI Literacy*

Number of Days: *4*

Hours per Day: *3 (2.5 h of instruction + .5 of Q and A)*

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

Description: *Learners will discuss how to apply data and AI technologies to improve their work and drive their company's growth. They will also practice making decisions based on data through conducting analysis and recognize opportunities to incorporate AI into the day-to-day operations. By the end of the course, participants will have a solid understanding of data analytics and AI concepts and will be able to take practical steps toward defining and implementing projects in collaboration with data and AI practitioners.*

Target Audience: *This course is designed for non-technical professionals across industries who want to build foundational knowledge of data and AI.*

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

Prerequisites: *No background in math or data analysis is required.*

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

Bootcamp Syllabus

Day 1: Data Literacy in a Data- and AI-driven World

a. Understanding data literacy: What it is and how to develop it
b. Basic data terminology and concepts
c. Outlining the Data Analytics spectrum (From Descriptive to Predictive, and the realm of AI)

Day 2: Exploring Data and AI Projects

a. Introduction to big data and AI
b. Data project lifecycle: From concept to implementation using AI applications
c. Building blocks of AI and machine learning (Defining AI, ML and their methods)

Day 3: Exploring Data and AI Projects/ Embracing Data and AI

a. Importance of data management and governance
b. Essential roles and tools involved in data and AI initiatives

Day 4: Embracing data and AI

a. Promoting ethical and responsible use of data and AI
b. Becoming data driven and contributing to data and AI projects