

Big Data & Analytics

Foundational



IoT

Course Overview

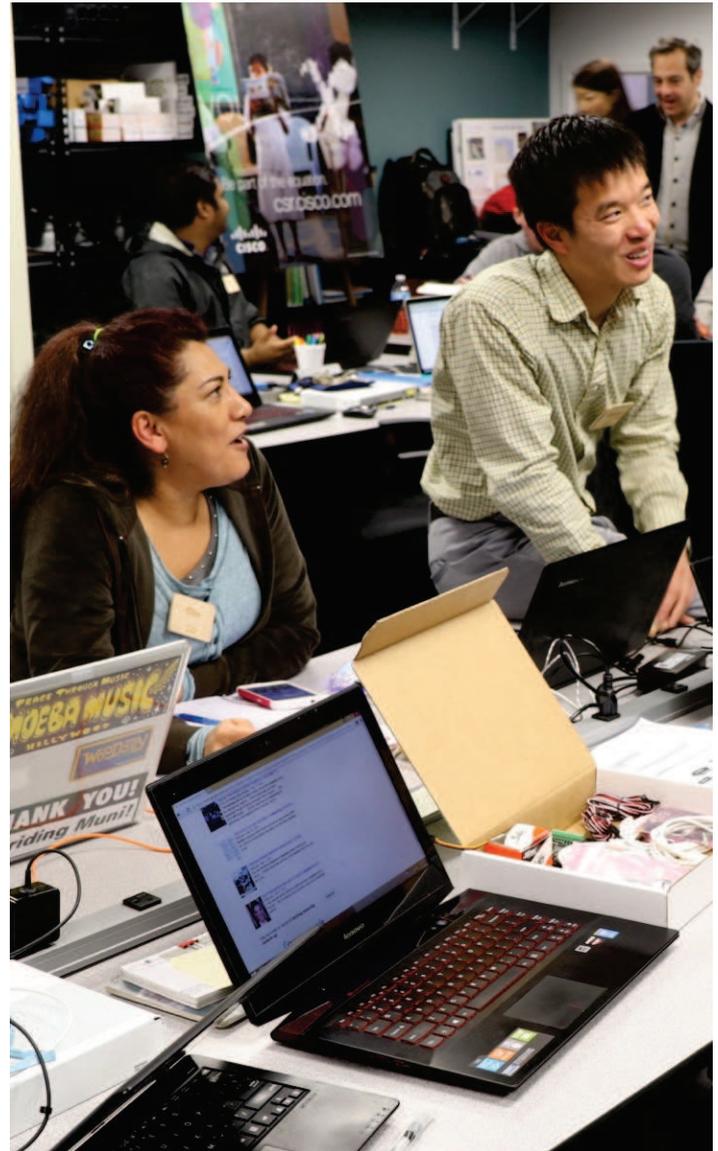
Students will learn how to use Python data libraries to create a pipeline to acquire, transform and visualize data collected from IoT sensors and machines. .

Benefits

The transformative element of any IoT system is the data that can be collected from it. Thus the ability to extract data and using data analytics techniques to gain insights increases employability.

Learning Components

- Use Python to read data from sensors and store data in a SQL data base.
- Use Python Data Analysis library to clean, manipulate, integrate data sets.
- Use Python Visualization Libraries to visualize real-time data end explore acquired data sets.
- Explain the fundamental principles of a modern scalable Big Data platforms like Hadoop.
- Use storytelling to present the insights gained from extracted data.



Target Audience: 2-year and 4-year College, 4-Year University students

Prerequisites: IoT Fundamentals: Connecting Things

Instructor Training Required: Yes

Languages: English

Course Delivery: Instructor-led

Estimated Time to Complete: 50 hours

Recommended Next Course: IoT Fundamentals: Hackathon Playbook