Welcome to our Summer Working Connections Virtual workshop, "The Data Science House We BILT". <https://summerworkingconnections2023.nationalctcwiki.org/datascience>

This is the "swan song" for our NSF/ATE DataTEC grant in which we will inform, amaze, and astound you with an summary of the programs, curriculum, and general knowledge we have acquired over the last four years as we developed, disseminated, and curated our 2-year A.S. degree in Data Science Technology.

Start time is 9:00 AM, end time is 4:30 PM. Fifteen minute breaks at 10:30 AM and 2:30 PM. Lunch is 12 PM to 1 PM. ALL TIMES are CST!

Please plan on sharing what you and your colleagues are doing at your institution. We have learned so much from our networking experiences with the CTC/CCN members.

Our daily agenda (in great detail and subject to change) is included below. Please don’t let it overwhelm you. There will not be a test!

We will be presenting using the WebEx collaboration platform, an invite will be sent via your registered email the day before the workshop begins. All sessions will be recorded.

We will be covering a variety of topics at a high level, but we will also provide some hands-on exercises as well. You are welcome to create accounts at the sites listed below to participate in the hands-on or feel free to just follow along and access the workshop recordings later at your leisure.\*

**Day 1 Monday July 17**

**Morning**

A.S. in Data Science Technology - History and Update

Embedded Certifications

Data Science Technician

FinTech Technician

Industry Certifications

Reimbursement

Implementation in curriculum

KSA Process

Learning from Attending Conference Workshops and Sessions

Making professional connections

Splunk

Alteryx

Learning from Disseminating at Conference Workshops and Sessions

Building a foundation for a B.A.S.

**Afternoon**

Lessons learned (Git, GitHub, and GitHub Classroom)

**(Create an account at** [**https://github.com**](https://github.com) **and** [**https://classroom.github.com**](https://classroom.github.com) **)**

Student presentation (William Money)

**Day 2 Tuesday July 18**

**Morning**

Lessons learned (R)

**(Create an account at** [**https://posit.co/products/cloud/cloud/**](https://posit.co/products/cloud/cloud/) **)**

Posit

Foundational Statistics

**Afternoon**

Lessons learned (SAS)

**(Create an account at** [**https://welcome.oda.sas.com/**](https://welcome.oda.sas.com/) **)**

Leveraging curriculum (SAS for FinTech)

**Day 3 Wednesday July 19**

**Morning**

Lessons learned (Python)

**(Create an account at** [**https://google.com/**](https://google.com/) **)**

Jupyter Notebooks

Google CoLab

Foundational Statistics

APIs

**Afternoon**

Leveraging curriculum (Machine Learning for FinTech)

**Day 4 Thursday July 20**

**Morning**

Lessons learned (Big Data Analytics/Hadoop)

Alteryx ([**https://www.alteryx.com/sparked/educators**](https://www.alteryx.com/sparked/educators))

DataBricks

Data Lakes

**Afternoon**

Lessons learned (Excel)

Leveraging curriculum (Excel APIs for FinTech)

Guest Speaker - Herschel Finch, Student Advising

**Day 5 Friday July 21**

**Morning**

Lessons learned (Data Visualization)

(Register and Download Tableau from [**https://www.tableau.com/academic/teaching**](https://www.tableau.com/academic/teaching))

(Register and Download Power BI from [**https://powerbi.microsoft.com/en-us/downloads/**](https://powerbi.microsoft.com/en-us/downloads/)**)**

Student presentation (Gina Baker)

Leveraging curriculum (PowerBI for FinTech)

**Afternoon**

Current Program and Grant Status

Moving Forward with the BILT

Moving Forward with New Programs

Moving Forward with New Curriculum

\* *All content is for education and entertainment purposes only and not to be construed as career or professional advice. Please contact your academic administrators, state board of education, and grant program manager for specific information regarding your situation.*