

# DATA ANALYTICS RESEARCH TRADING & TECHNOLOGY (DARTT) LAB

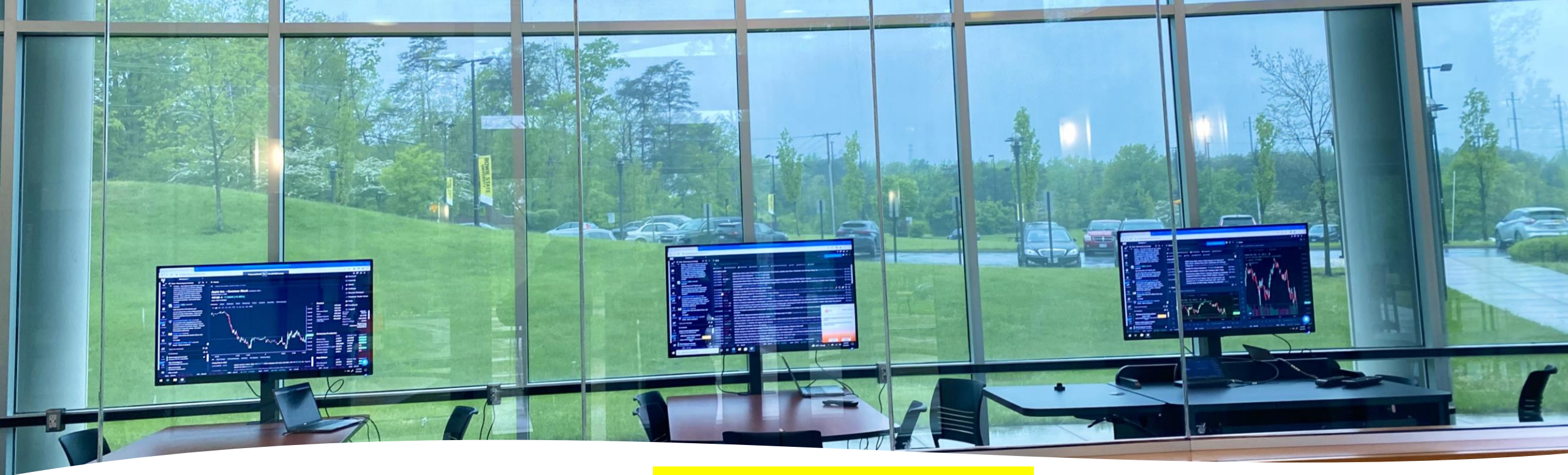
**Presentation by  
Bolametiren Akinlaja (BIBI)**





# THE DARTT LAB

The Data Analytics Research Trading and Technology (DARTT) Lab is a critical resource to students across disciplines to gain exposure to large data sets, software and technology resources for innovative pedagogy and research.



## THE DARTT LAB

- ❖ The interdisciplinary research lab is focused on solving large-scale data analytics problems that arise in different domains including, social networks, health care, science, retail, economics, finance, and business.
- ❖ It provides invaluable tools for our students to gain real-world experience under the guidance of our skilled Data Science and Analytics (DSA) faculty community.



# LOCATION

The physical world-class lab is located on the first floor of the Center for Business and Graduate Studies.

# DARTT LAB FEATURES

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- ❖ Computing and storage resources including a new server, high-memory computers for data management,
- ❖ Analytics software including Stata, MathLab, R, Stata, SPSS, ArcGIS, Tableau Python, and other software options.
- ❖ A robust virtual lab environment for users to access data and software.
- ❖ Repository of interdisciplinary data for hands-on projects and case studies necessary for the DSA modules infusion across disciplines.





## BENEFITS TO STUDENTS

- ❖ Experiential learning opportunities that lead to the development of hard skills for internships and jobs, co-curricular and course support
- ❖ strengthening of data science and analytics understanding through discipline-specific application knowledge.

# ACTIVITIES

- ❖ Service-learning projects with nonprofit and civic organizations
- ❖ Datathon competitions to address issues impacting the local and national economy.
- ❖ Business and financial planning competitions sponsored by local and national organizations
- ❖ Undergraduate and graduate research symposiums
- ❖ Stock Pitch and games



# DARTT LAB PROPOSED ACTIVITIES ( FALL SEMESTER)



The Power of storytelling with Data (Workshop)



The DARTT Lab Stock Game



The Stock Pitch



Faculty DARTT Lab Software and Hardware  
Training







# Personal Finance Lab

**CUSTOMIZABLE STOCK MARKET GAME WITH  
EMBEDDED CURRICULUM**

## **THE DARTT LAB STOCK GAME**

### **GAME OBJECTIVE**

The goal of this activity is to engage the students to understand how the stock market works with real-life experiences through healthy competition.



# **FACULTY SOFTWARE & HARDWARE TRAININGS**

**This interactive training sessions will give faculty everything they need to know about the DARTT lab, which includes Software and hardware as well as best practices to enhance the teaching and student learning experience**

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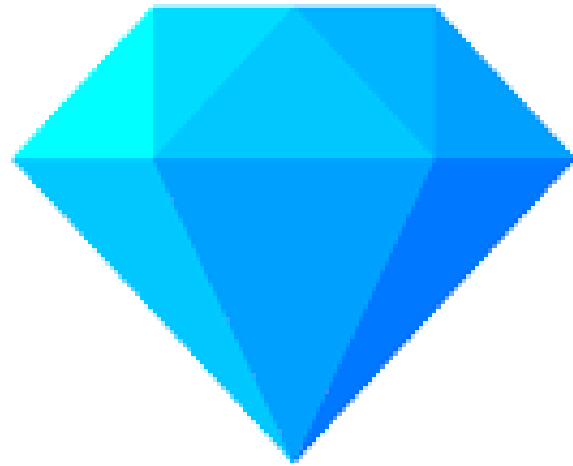


**R**

Data Analytics  
with  
**R PROGRAMMING**



+ able au



**OpenRefine**



# Personal Finance Lab

**CUSTOMIZABLE STOCK MARKET GAME WITH  
EMBEDDED CURRICULUM**





**Introducing Apporto for Business**



# python

```
7 from watson.framework import evanes
8 from watson.http.messages import Response, Request
9 from watson.common.imports import get_qualified_name
10 from watson.common.contextmanagers import suppress
11
```

```
12 ACCEPTABLE_RETURN_TYPES = (str, int, float, bool)
13
```

```
14
15 class Base(ContainerAware, metaclass=abc.ABCMeta):
16
```

```
17     """The base class for all controllers.
18     Attributes:
19         __action__ (string): The last action that was called on the controller.
20     """
```

```
21
22     def execute(self, **kwargs):
23         method = self.get_execute_method(**kwargs)
24         self.__action__ = method
25         return method(**kwargs) or {}
26
```

```
27 @abc.abstractmethod
28 def get_execute_method(self, **kwargs):
29     """Implement get_execute_method() if appropriate.
30     """
31     raise NotImplementedError(
32         "Implement get_execute_method() if appropriate."
33     )
34
```



Power BI



Excel



# THE DATA TRIBE

"Our Language Is Data"



## **CLUB DESCRIPTION**

- The Data Tribe is Bowie State University's community for data enthusiasts
- It's a safe space for students to network, explore and maximize project-based opportunities that data offers



Thank  
you



Any Questions?