Data Science in Institutional Research

How Institutional Research (IR) is improving decision making

Association for Institutional Research reports

89% of IR, student affairs, and IT professionals invest in predictive analytics to increase student success.


**ANSWER QUESTIONS THAT FACILITATE DECISION MAKING**

- Where is the data?
- Should Grade Forgiveness be extended to Transfer Students?
- How can we make salary equitable?

Data Science Begins & Ends with You

**Step 1. Collaboration**
The data analytics process begins with your questions about programs, process improvements, or anything you wish to explore. Together we create an outline for a study focused on three or four research questions.

**Step 2. Data Collection**
The majority of our data comes from Tech’s Enterprise Data Warehouse (EDW). We use SQL to extract the appropriate data elements to answer your questions.

**Step 3. The Findings**
This stage is an iterative process of analyzing the data, drafting documents and obtaining feedback to develop the final product, whether it is creating a static report with visualizations or a dynamic dashboard.

**Step 4. Review the Findings**
Data Science is an ongoing process of discovery. Unexpected insights may lead to new questions and further inquiry and even help answer long-standing issues in a new way.