Unlocking the Power of Data in Government

November 22, 2024 Scott Powell, Ph.D.



Role of Chief Data Officer

- Evidence-Based Decision Making
- Strategic Data Leadership
 - Cross-Departmental Guidance
- Michigan Center for Data and Analytics
 - Statewide Priorities

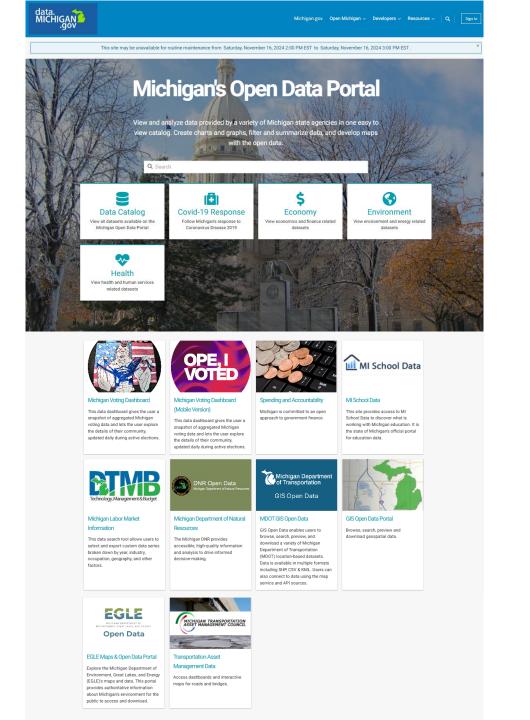
What We Do

- The research and analytics team focuses on leveraging state data to drive informed decisions through advanced research and cross-agency collaboration.
- The **demography** team advises on Michigan's population and demographic data and manages the state's relationship with the U.S. Census Bureau.
- The **labor market information** team produces Michigan employment, occupation, and industry data through partnerships with U.S. Department of Labor.

Open Data

- Data from multiple departments across state government
- Promotes transparency, engagement, and accountability
- Resource for everyone

Open Data Portal data.michigan.gov



Types of Analysis

Three broad categories, from least to most involved:

1. Summaries and dashboards: Better understanding of state programs

2. Program evaluations:

Identifying what works best in state programs

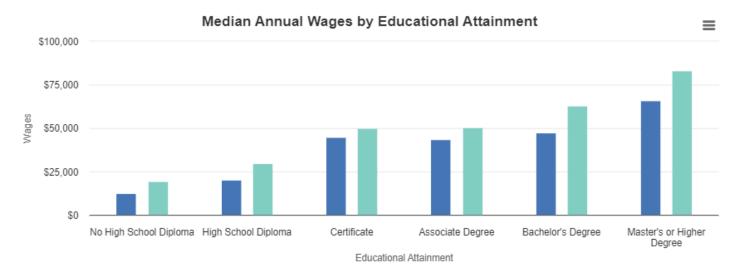
3. Predictive modeling:

Targeting services to those that need them most

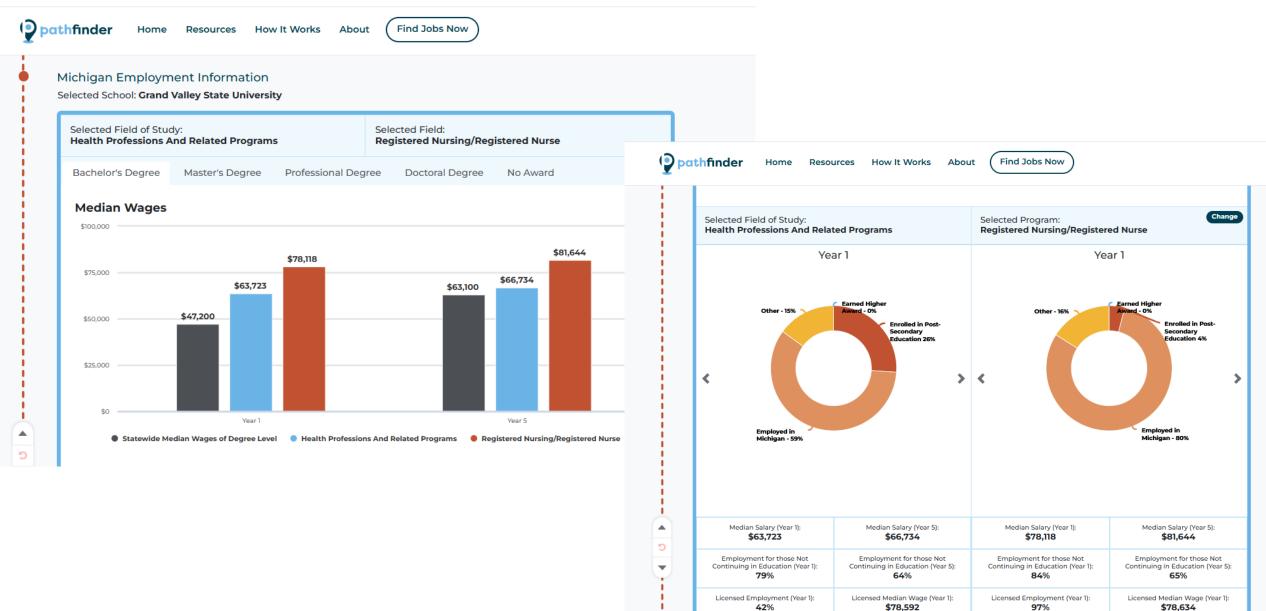
MISchool Data Michigan's Official Education Data Source	Connections -> • Education Map • Support -> Sign In ->	
Dashboards & Education Focus Areas Early Childhood K-12 Grade Student Subgr	oups Postsecondary Workforce	
Information for Educators Parents Policymakers Media		
Workforce > Median Annual Wages by Education Attainment	Contraction of the second s	
Median Annual Wages by Education Att		

About this Report





Wages After 1 Year



Typical Time from Completion to Employment: 90 days or less

Please note: Military, railroad, and certain self-employment earnings are not available in state wage records.

Typical Time from Completion to Employment:

90 days or less

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PATH Training in Michigan Found to be Cost-Effective and Increases Wages

February 29, 2024

Key Findings

Author:

Data Scientist

Salomon Orellana, Ph.D.

This PATH evaluation found that completing certain training activities increases a participant's wage premiums by nearly \$3,500, in the first two years after exiting their program. Furthermore, these training programs are found to be cost effective, with the cost of training being recovered within a year's time. Keep reading for more information about MCDA's analysis on PATH training programs.

What is the PATH Program and PATH Training?

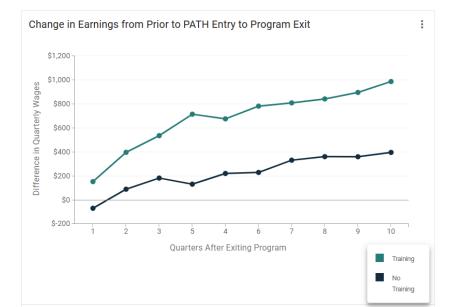
PATH (Partnership. Accountability. Training. Hope) is a program designed to identify barriers to employment (such as childcare needs, transportation, and literacy) and help connect clients to the resources they need to gain employment. The PATH program was implemented on January 1, 2013, by the (now) Michigan Department of Health and Human Services, the Michigan Workforce Development Agency (now part of the Department of Labor and Economic Opportunity), and the Michigan Works! Agencies.

The PATH program begins with an assessment that identifies barriers to employment. During the assessment period, clients are also provided services that help them find employment, particularly clients who have difficulties sustaining employment or who have been unemployed for some time. After the evaluation period, caseworkers help connect clients to resources that help remove identified barriers. The PATH program helps connect clients to resources ranging

PATH Training Increases Wages and Employment for Participants

The evaluation found that PATH training did lead to higher earnings for trainees compared to those who did not receive training. On average, individuals receiving training experienced a significantly larger increase in wages than those who did not receive training. The wage gap continued to grow over the period examined. Two and a half years (10 quarters) after exiting the program, trainees experienced a quarterly wage increase of \$988, on average. Over the course of a year, PATH trainees earn an average of \$2,366 more than non-trainees.

Six months (two quarters) after exiting the program, trainees have a higher probability of being employed than non-trainees. This higher probability is maintained throughout the period examined -- two and a half years after exiting the program.





Current Priorities

- Silo-Busting
- Data Strategy
- Priority Projects

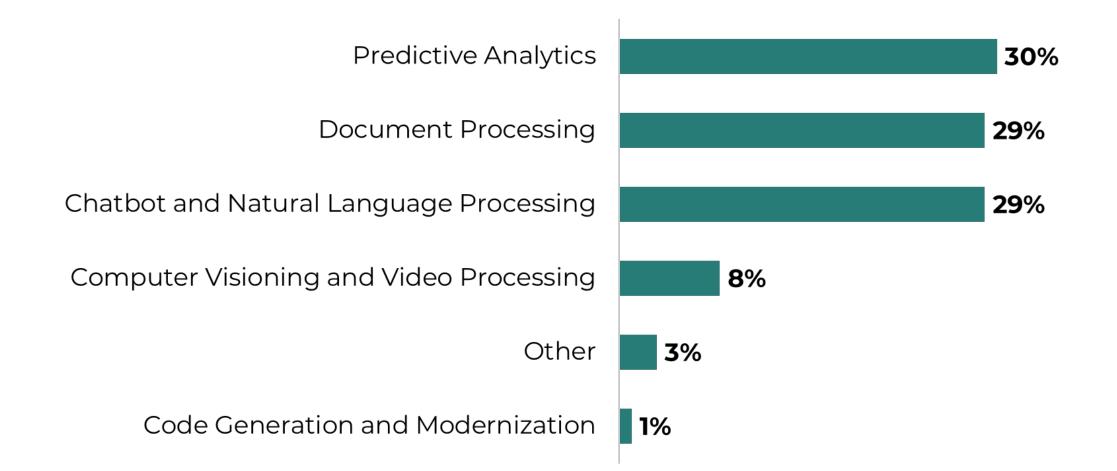
DTMB and AI

- Policies and Procedures
- Al Core Team
- Strategy in 2025

Core Al Use Cases

- Predictive Analytics
- Chatbot and Natural Language
 Processing
- Code Generation and Modernization
- Computer Visioning and Video Processing
- Document Processing

Demand for AI Use Cases



Role of MCDA in Al

- Predictive Analytics
- Data Quality
- Equity

Resources

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Thank you!

