

# Teaching Analytics, But Does It Match the Data?

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## **ANALYTICS FOR UNSTRUCTURED DATA**

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## PROBLEM STATEMENT

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Are top MSBA programs teaching the skills employers want right now?

# EVALUATION FRAMEWORK



# DATA & SCOPE DETAILS

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Top 5 US MSBA programs:

- Carnegie Mellon University
- Massachusetts Institute of Technology
- New York University
- Columbia University
- University of Texas at Austin

Ranked 5-10 US MSBA programs:

- University of Southern California
- University of Washington
- Purdue University
- Georgetown University
- University of Minnesota

Top Non-US MSBA programs:

- London Business School (UK)
- Imperial Business School (UK)
- Warwick Business School (UK)
- NUS Business School (Singapore)
- Melbourne Business School (Australia)

Job listings sample:

- Source: Indeed (US)
- Roles: Business Analyst, Data Analyst, Data Scientist
- Time: current listings as of October 2025

# SKILL DETECTION

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## Data Analyst

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- SQL
- Python
- Excel
- Power BI
- Tableau

## Business Analyst

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- SQL
- Excel
- Dashboards
- Power BI
- Tableau

## Data Scientist

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- Machine Learning
- Python
- SQL
- R
- Optimization

## Skills from Curriculum

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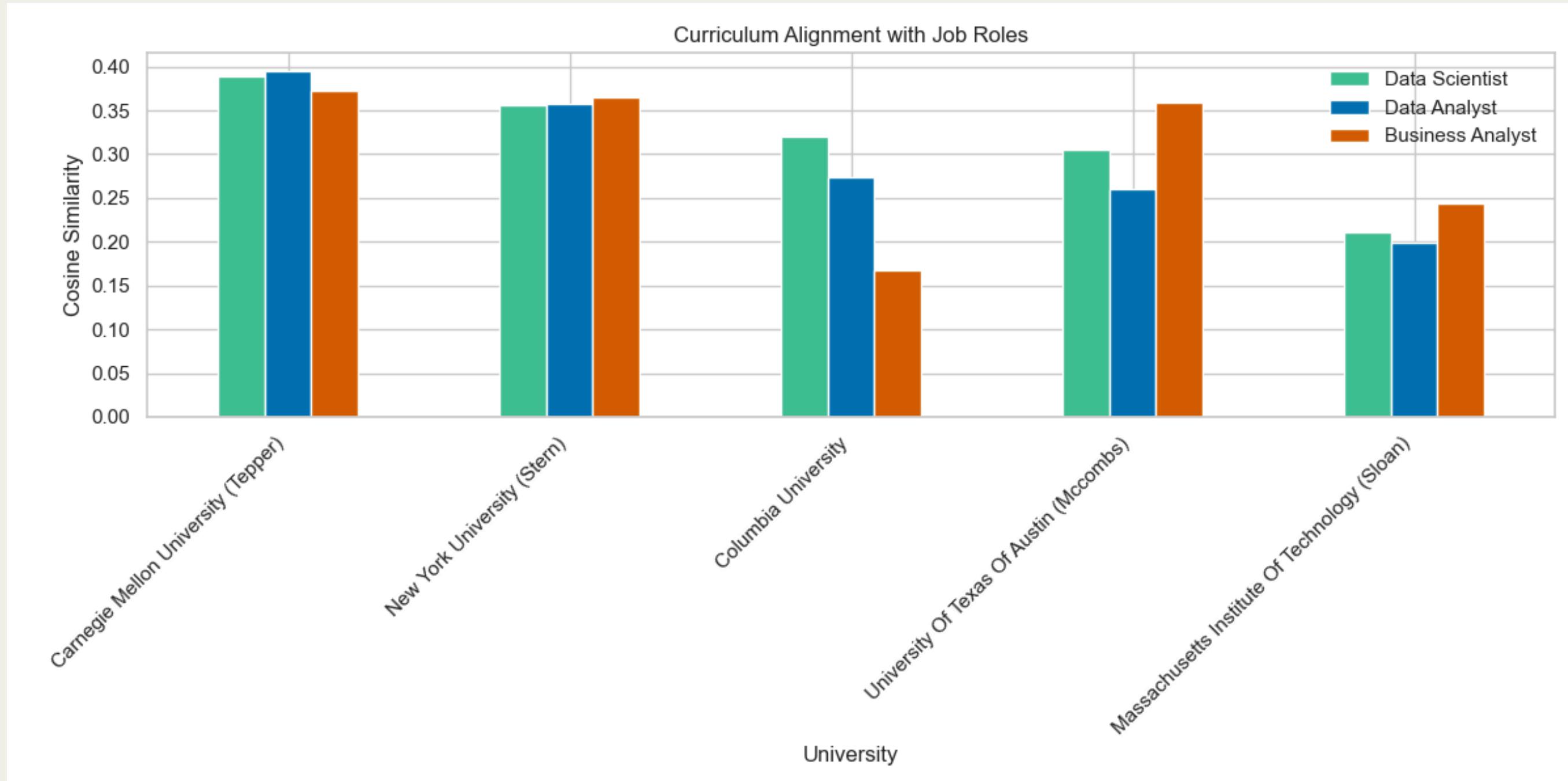
- Python
- Business analytics (covers SQL, statistics, visualization, basic machine learning concepts and decision making)

- Machine learning
- Regression
- Optimization
- R
- Statistics

- SQL
- Causal inference
- Data visualization

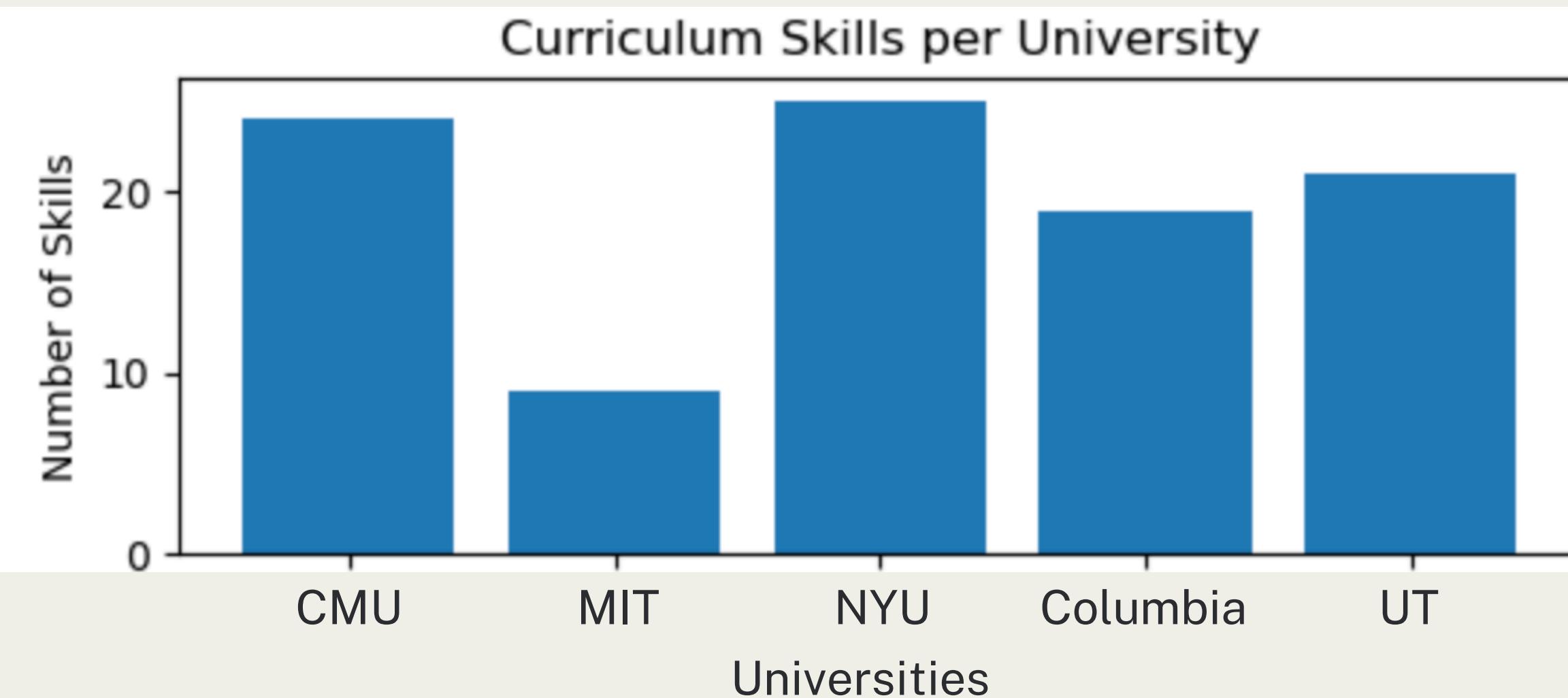
# ALIGNMENT METRIC - TOP 5 UNIVERSITIES

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# WHY IS MIT NOT AT STRONGLY ALIGNED?

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## Missing Information

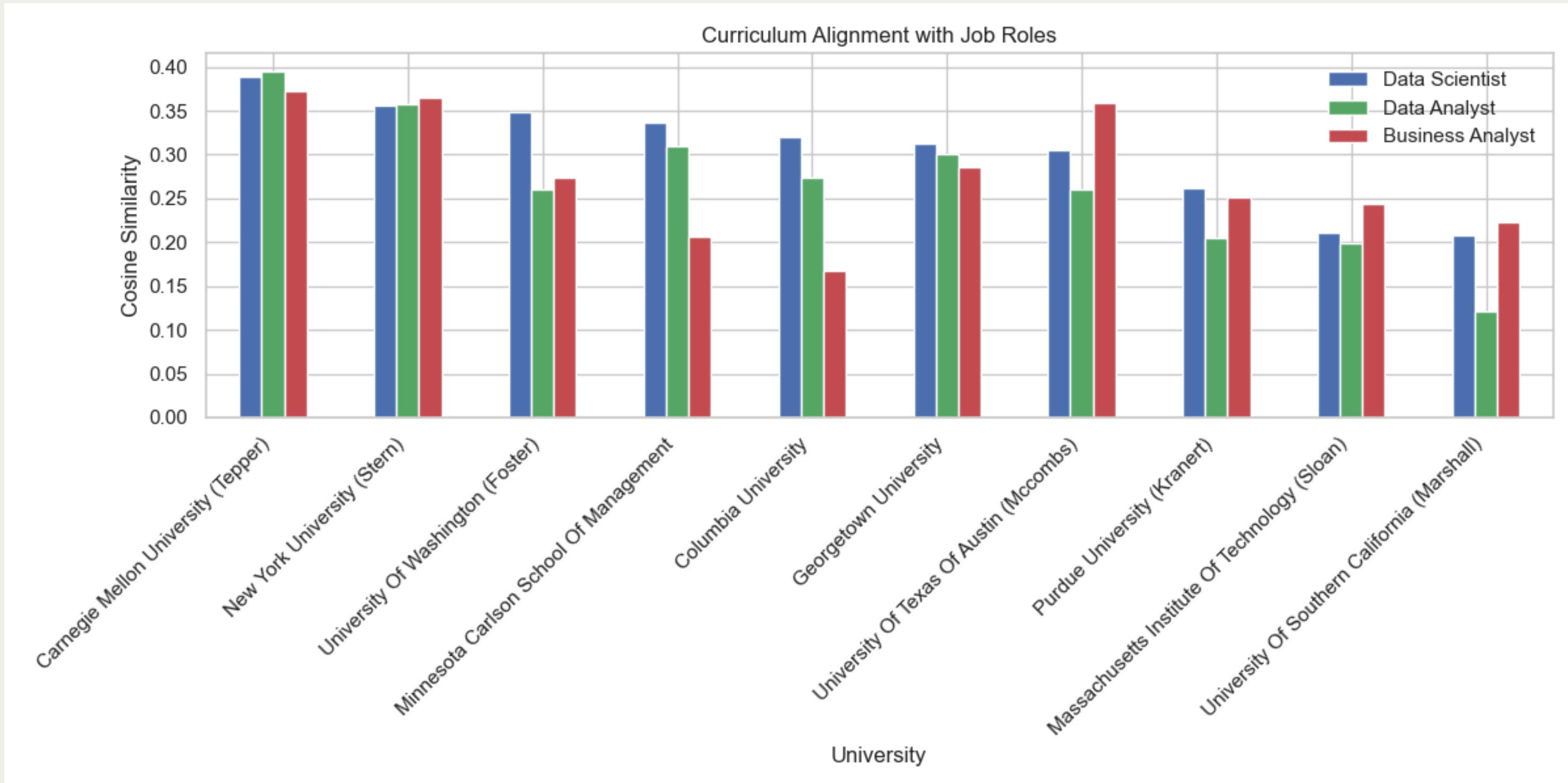
MIT has fewer skills listed in their curriculum and on their website.

## Significance

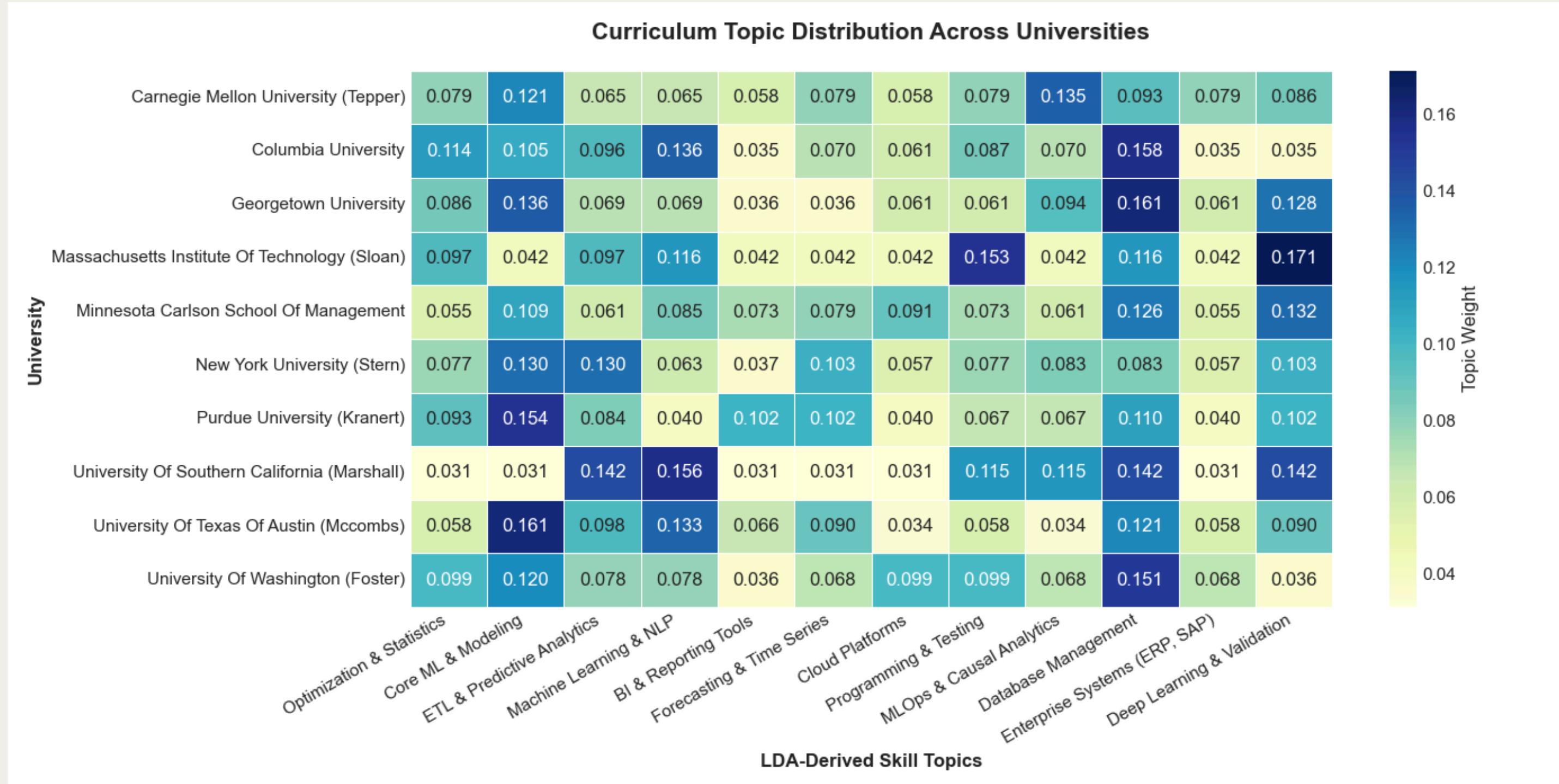
Future students are not receiving the same amount of information from MIT as other schools

# MARKET DEMAND VS CURRICULUM SUPPLY

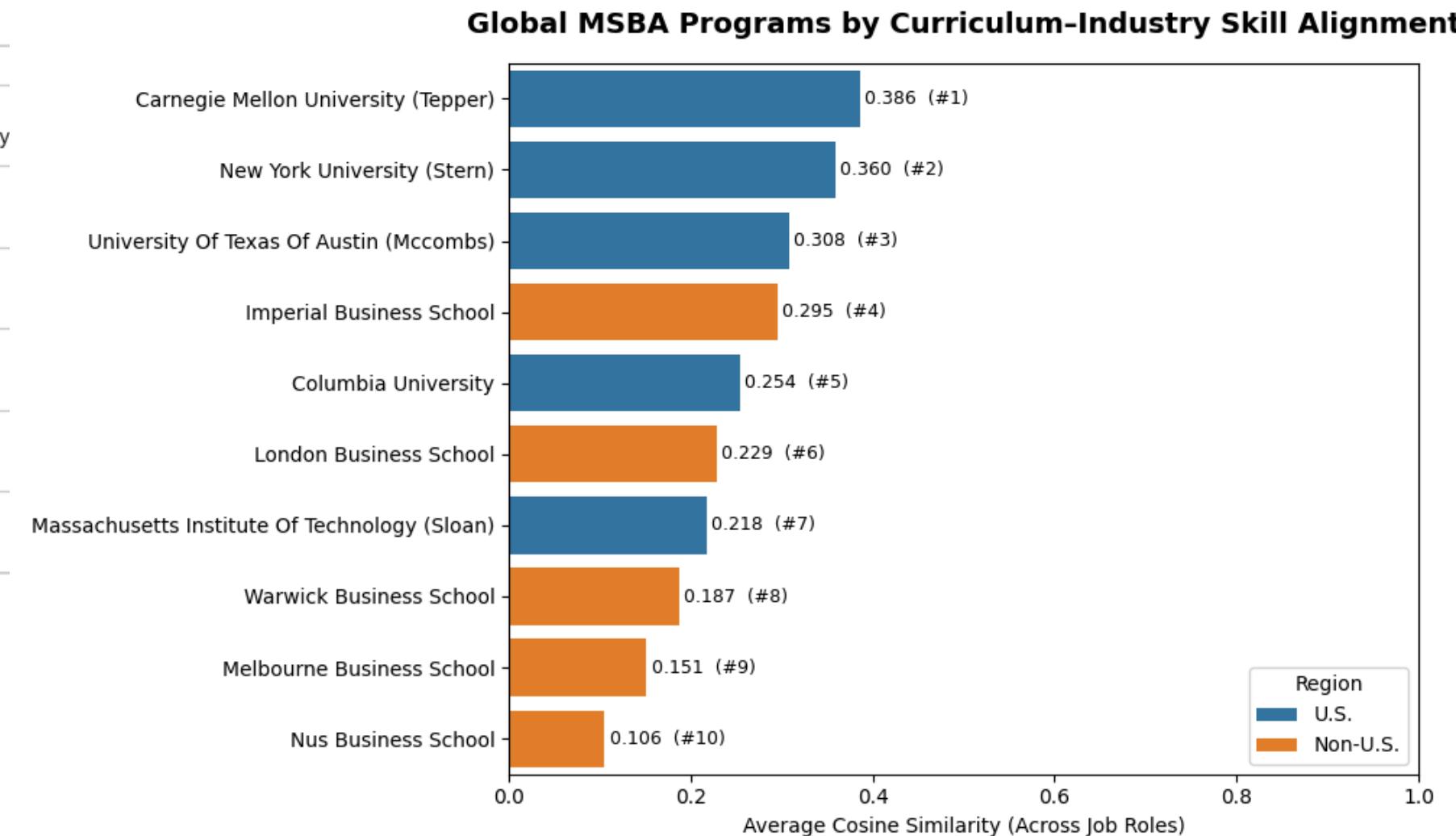
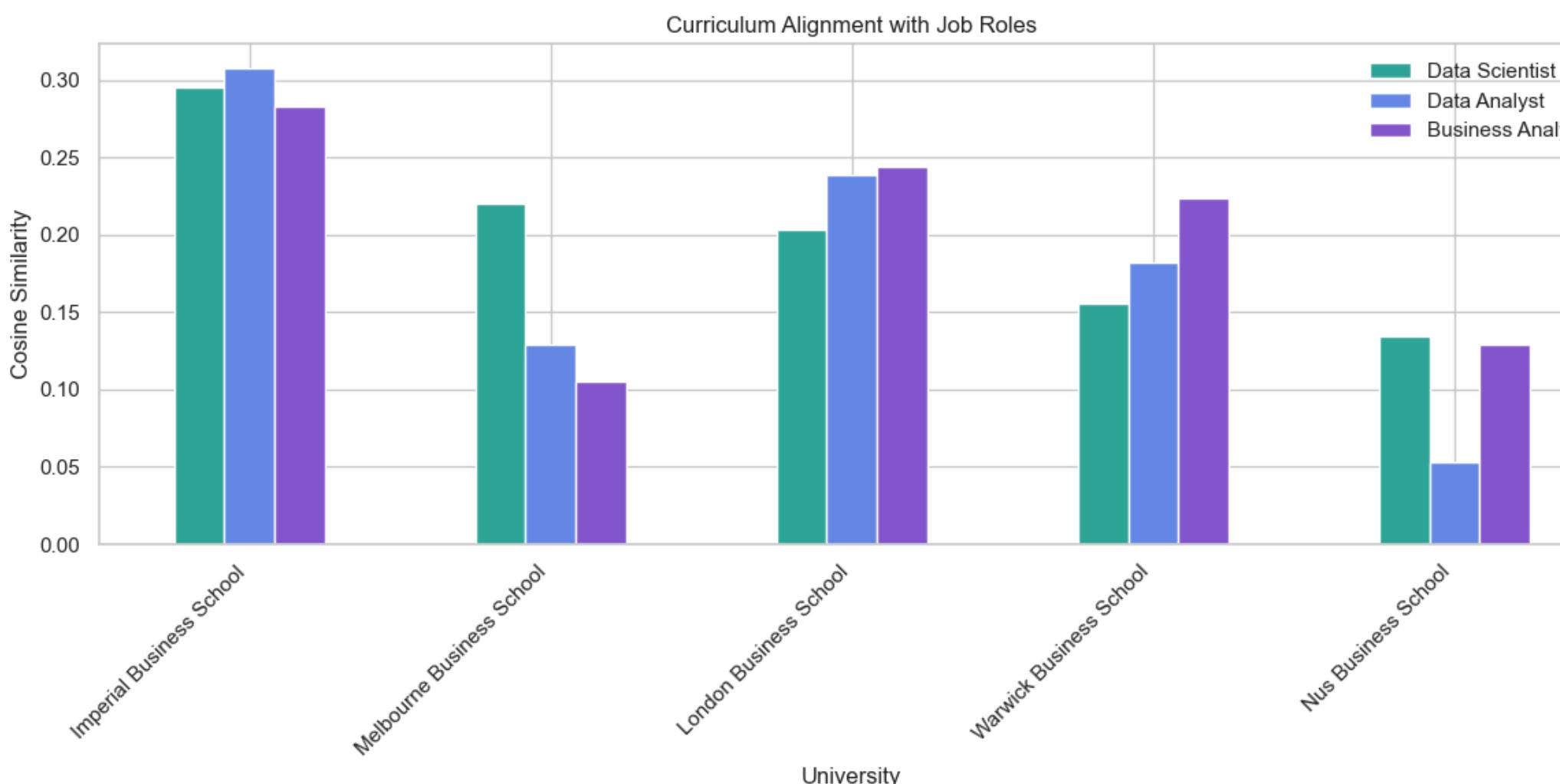
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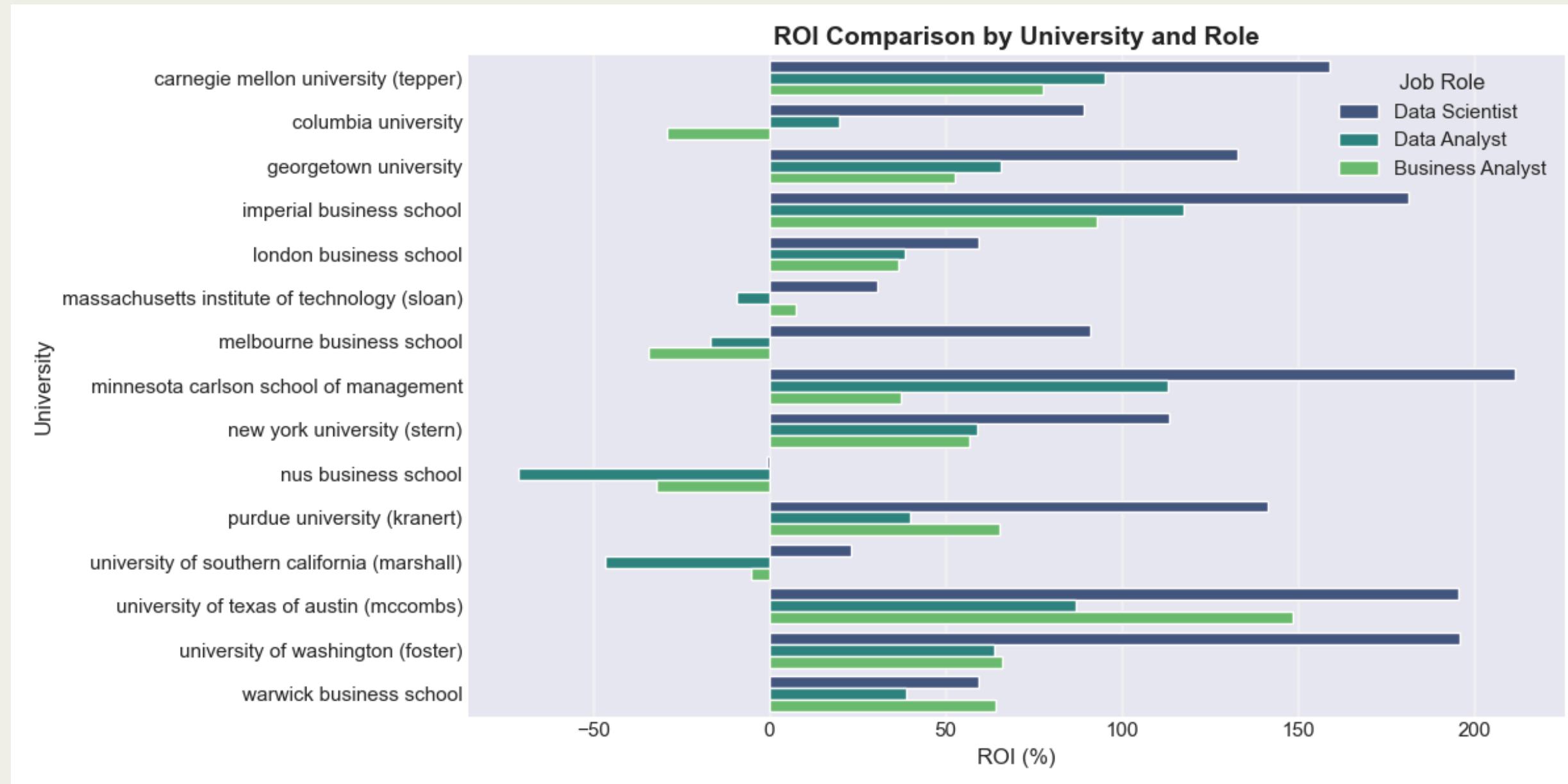
# CURRICULUM TOPIC MIX BY UNIVERSITY



# MARKET DEMAND VS CURRICULUM SUPPLY - NON US



# ROI ANALYSIS OF GLOBAL MSBA PROGRAMS



# CONCLUSION/TAKEAWAYS

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- Do the top 5 MSBA programs align best with current job responsibilities?
- Is there truly a disconnect between certain job responsibilities and skills taught or are they just not properly advertised on university websites?
  - MIT SQL example
- How do top non-US schools prepare students compared to top US schools for US job descriptions?

# Thank you!

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