The Data Landscape

Proposed Programs

- MS Urban Informatics (CSSH)
- MS Bioinformatics (COS)
- MS Game Science and Design (CAMD)
- MS Health Data Analytics (Bouvé & CCIS 37 SH)
- MS Data Science (CCIS & COE 32 SH)
- MS Data Analytics Engineering (COE 32 SH)

Data Analytics Certificate
CSSH, CCIS, DMSB 16SH
(Intro to Data Mining, Comp. Stats, Data Manipulation, Visual Analytics)
The Common Foci

Data Mining
- **MSDS**: In-depth, two course sequence
- **MSHDA**: Intro and fundamental techniques
- **MSDAE**: Focus on engineering applications

Statistics
- **MSDS**: Placement; Integrated into ML courses
- **MSHDA**: Application of comp. statistics
- **MSDAE**: In-depth, two course sequence

Data Processing
- **MSDS**: Emphasizes parallel data processing
- **MSDHA**: Introductory, focus on health data
- **MSDAE**: Emphasis on enterprise databases

Data Presentation & Visualization
- Covered in the three programs
- Differing emphasis on technical elements
# Distinctive Features of the MS programs

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<th>Data Science</th>
<th>Health Data Analytics</th>
<th>Data Analytics Engineering</th>
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<tr>
<td><strong>Background of Most Incoming Students</strong></td>
<td>STEM</td>
<td>Health Sciences</td>
<td>Engineering</td>
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<td><strong>Representative Career</strong></td>
<td>Software industry Social Media</td>
<td>Healthcare Systems Insurance</td>
<td>Smart Manufacturing Logistics</td>
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