| | 6. Data Visualization and Communication | | | | | |
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| | KSA Description | Knowledge, Skill, or Ability? | Bloom's Taxonomy Level? | Cross-cutting KSAs | Course Number/Name | Learning Outcome |
| a | Explain the role of data visualization in discovery, communication, and decision-making. | Knowledge | 3 | Generalist 4a, Machine Learning 3a | | |
| b | Explain key tools and technologies for creating visualizations. | Knowledge | 2 | | | |
| c | Evaluate data visualization options for proper application in various situations. | Ability | 4 | Generalist 4b, Machine Learning 3b | | |
| d | Visualize data using various types of displays including tables, dashboards, graphs, maps, and trees. | Skill | 3 | Generalist 4d, Machine Learning 3d | | |
| e | Create effective static and interactive data visualizations or storytelling that employ analytics and visualization software and strategies for various audiences. | Skill | 3 | Generalist 4c, Machine Learning 3c | | |
| f | Properly define a problem in context, use appropriate data, and deliver a compelling visualization to explain or answer a question. | Ability | 3 | Generalist 4h, Machine Learning 3h | | |
| g | Visualize data ensuring ADA/508 compliance for accessibility. | Ability | 3 | | | |