

Data Scientist/AI Position - Interview Guidelines

Presentation Prompt (15 minutes, 5 minutes Committee Questions)

Please prepare a 15 minute presentation suitable for a Zoom interview that demonstrates your expertise in data science and AI, with a focus on research support in an academic environment. Your presentation should include:

1. A case study from your experience that showcases:
 - Data visualization or AI techniques you've implemented
 - AI/ML methods you've applied to solve research problems
 - How you've made complex data insights accessible to non-technical stakeholders
2. Brief Notes on:
 - Your coding abilities in relevant tools/languages
 - Your approach to research data, data visualization and new AI methods
 - How you would integrate new AI tools to enhance research workflows
3. Your general vision for:
 - Supporting diverse research needs across academic disciplines
 - Implementing innovative data science solutions in an academic research settings
 - Fostering collaboration and innovation in researchers and data science teams

Interview Questions (30 minutes) (10 minute Candidate Questions/Wrap Up)

Technical Expertise

1. "Can you describe a challenging research dataset you've worked with and how you approached cleaning, analyzing, visualizing and/or finding further insights with AI methods? What methods did you use to ensure the insights were accessible to researchers from various backgrounds?"

AI Integration & Innovation

2. "How do you stay current with emerging Data and AI technologies. How would you evaluate which ones are appropriate to implement and/or demonstrate or workshop in an academic research setting? Please provide specific examples."

Collaboration & Communication

3. "Tell us about a time when you had to explain complex data science concepts to someone without technical expertise. How did you ensure they understood the implications for their research?"

Problem-Solving

4. "What is your approach when a researcher (faculty, graduate student or staff) comes to you with a vague data-related problem? Walk us through your process for helping them clarify their needs and develop a solution with data visualization or AI."

Research Support & Ethics

5. "How do you balance the need for innovation and efficiency with data privacy and ethical considerations in an academic research environment?"