

**User Steering Action**

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graph TD; A[User Steering Action] --> B[Online Data Analysis]; A --> C[Online Data Adaptation]; B --> D[Monitoring]; B --> E[Runtime visualization]; B --> F[Interactive Analysis]; C --> G[Parameter tuning]; C --> H[Data Reduction]; C --> I[Checkpointing and Rolling back]; C --> J[Performance optimization]; C --> K[Code replacement];
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Online Data  
Analysis

Online Data  
Adaptation

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visualization

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Parameter  
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Checkpointing  
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