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Streamlining Data Validation and Standardization with JSON Schemas

Our digital labbook collects diverse user-submitted data, which demands a validation and standardization approach that is both flexible and robust. We leverage JSON Schemas as the backbone of our system to enforce data validity while accommodating a wide range of input formats. In this talk, we provide an primer on JSON Schemas and demonstrate how they are used to standardize user-facing endpoints. Attendees will gain insights into schema design, validation mechanisms, and practical strategies for managing heterogeneous data in dynamic environments.

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