# Task Report: Speaker Profile JSON Schema

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Task: Speaker Profile JSON Schema

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## How I Completed the Task

I designed a JSON schema to define speaker profiles for Nexi, including fields such as name, age, gender, language, mood, and education level. This schema helps validate and organize structured speaker information which can be used for personalized interaction logic.  
  
I also created two sample profiles conforming to the schema and validated both the schema and the samples using an online JSON Schema Validator.

## Tools & Resources Used

- Format: JSON, JSON Schema (draft-2020-12)  
- Tool: https://jsonschema.net (for schema generation and validation)  
- Editor: VS Code for JSON editing  
- Libraries Consulted: JSON Schema specification and examples

## Approach & Methodology

Step-by-Step Process:  
  
1. Defined the required fields for a speaker profile based on project needs: name, age, gender, language, mood, and education\_level.  
  
2. Created a JSON Schema that included:  
 - Data types (string, integer)  
 - Enumerated allowed values for categorical fields like gender, mood, and education\_level  
 - Required field validations  
  
3. Created two example profiles (Sara Ahmed and Ali Raza) based on the schema.  
  
4. Validated the schema and sample profiles using https://jsonschema.net to ensure correctness and compliance.

## Files Submitted

- speaker\_profile\_schema.json – JSON Schema file  
- speaker\_profile\_1.json – First example profile  
- speaker\_profile\_2.json – Second example profile  
- (Optional) Validation Screenshot from JSONSchema.net

## Conclusion

The schema ensures that speaker data is collected in a structured and standardized format, enabling Nexi to customize responses based on user identity and context. It can be easily extended in the future for additional fields or integration with a database or user profile manager.