```python
def transform_dataset(dataset):
    instructions = dataset["train"]["instruction"]
    inputs = dataset["train"]["input"]
    outputs = dataset["train"]["output"]
    transformed_dataset = []
    for i in range(len(instructions)):
        system_header = "<|begin_of_text|><|start_header_id|>system<|end_header_id|>\n"
        instruction = f"<|start_header_id|>{instructions[i]}<|end_header_id|>\n"
        user_header = "<|start_header_id|>user<|end_header_id|>\n"
        user_msg_1 = f"<|start_header_id|>{inputs[i]}<|end_header_id|>\n"
        assistant_header = "<|start_header_id|>assistant<|end_header_id|>\n"
        model_answer = f"<|start_header_id|>{outputs[i]}<|end_header_id|>\n"
        transformed_example = f"{system_header}{instruction}{user_header}{user_msg_1}{assistant_header}{model_answer}"
        transformed_dataset.append({"text": transformed_example})

    return transformed_dataset
```