**API Endpoint Design**

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| **Field** | **Description** |
| Endpoint Name | ***Model Training Service*** |
| Endpoint URL | ***/trainModel*** |
| HTTP Method | ***POST*** |
| Description | *Endpoint for training machine learning models with provided data and parameters.* |
| Request Parameters | ***data*** *(string, required),* ***params*** *(dictionary, required)* |
| Response | *JSON object containing* ***model\_artifact*** *(string) and* ***training\_metrics*** *(dictionary)* |
| Example Request | ***curl -X POST http://127.0.0.1:5000/trainModel -H "Content-Type: application/json" -d '{"data": "sample\_data", "params": {"learning\_rate": 0.01}}'*** |
| Example Response | ***{"model\_artifact": "dummy\_model\_path", "training\_metrics": {"accuracy": 0.95}}*** |