# **Deployment Report**

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## **Step 1: Toy Data Generation**

The toy data was generated using the following code:

<>

The resulting dataset was saved to a CSV file called `toy\_data.csv`.

# **Step 2: Model Training**

The linear regression model was trained using scikit-learn:

<>

The trained model was saved to a file called `linear\_regression.joblib`.

## **Step 3: Model Deployment**

The Flask app was created using the following code:

<>

The app listens on port 5000 and has an endpoint '/predict'.

### Snapshot 1:

```
# Generate toy data
np.random.seed(42)
num_samples = 100
hours_studied = np.random.uniform(low=0.0, high=10.0, size=num_samples)
exam_scores = 2.0 * hours_studied + np.random.normal(loc=0.0, scale=1.0, size=num_samples)
```

### Snapshot 2:

```
# Save data to file
np.savetxt('toy_data.csv', np.column_stack((hours_studied, exam_scores)), delimiter=',', header='Hours Studied, Exam Score', com
```

#### Snapshot 3:

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