### **Tracking Model Accuracy on Real-Time Data**

* **What I Did:**
  + Set up a logging system to track predictions and actual churn outcomes.
  + Created a dashboard using Tableau and Power BI to monitor accuracy trends over time.
  + Integrated AWS CloudWatch alerts to notify when accuracy drops below a threshold.
* **How I Did It:**
  + Stored predictions and true values in a PostgreSQL database.
  + Connected the database to Tableau and Power BI for visualization.
  + Configured alerts in CloudWatch that trigger emails when accuracy falls below 85%.

### **Handling Model Drift: Updating the Model Periodically**

* **What I Did:**
  + Built an automated drift detection pipeline using Postman.
  + Scheduled monthly model retraining with Apache Airflow.
  + Implemented A/B testing to compare old vs. new models before replacing them.
* **How I Did It:**
  + Tracked distribution changes in input features (e.g., tenure, monthly charges).
  + Set up a data drift report that triggers retraining when drift exceeds 10%.
  + Used MLflow to version models and compare performance before deployment.