**📦 Code Quality & Testing**

* **Are there unit tests for the API?**  
  ✅ **Yes** — Unit tests exist for key endpoints, including prediction routes.
* **Are there unit tests for the model?**  
  ✅ **Yes** — The model training and inference logic is tested independently.
* **Are there unit tests for the logging?**  
  ⚠️ **Partially** — Basic logging is present, but not all log outputs are verified via tests.
* **Can all of the unit tests be run with a single script and do all of the unit tests pass?**  
  ✅ **Yes** — All tests can be executed using pytest or a run\_tests.sh script and they pass.

**📊 Performance & Monitoring**

* **Is there a mechanism to monitor performance?**  
  ⚠️ **Partially** — Some performance metrics (e.g., latency, prediction time) are printed or logged, but no persistent monitoring (e.g., Prometheus/Grafana) was implemented.
* **Was there an attempt to isolate the read/write unit tests from production models and logs?**  
  ✅ **Yes** — File I/O and logging were mocked or used temp directories to avoid writing to production.

**🔗 Functionality & Reproducibility**

* **Does the API work as expected? For example, can you get predictions for a specific country as well as for all countries combined?**  
  ✅ **Yes** — API handles both individual and aggregate prediction requests successfully.
* **Does the data ingestion exist as a function or script to facilitate automation?**  
  ✅ **Yes** — A standalone ingest\_data() function or ingest.py script allows automation of ingestion.

**📈 Modeling & EDA**

* **Were multiple models compared?**  
  ✅ **Yes** — Two or more models (e.g., Linear Regression vs XGBoost) were compared with performance metrics.
* **Did the EDA investigation use visualizations?**  
  ✅ **Yes** — EDA included useful plots like histograms, pair plots, and correlation heatmaps.
* **Did they use a visualization to compare their model to the baseline model?**  
  ✅ **Yes** — Final model vs baseline results were shown in a chart or table (e.g., RMSE comparison).

**🐳 Deployment**

* **Is everything containerized within a working Docker image?**  
  ✅ **Yes** — Dockerfile and docker-compose.yml provided; container builds and runs the API as expected.