Path forward is to combine them.

1. **The Watchdog (Isolation Forest):** Best-tuned Isolation Forest model (the one with **81% precision**). Its job is to be highly reliable first alert for **new and unknown** anomalies. The alerts are trustworthy, even if it doesn't catch everything.
2. **The Expert (LightGBM):** This LightGBM model as comprehensive expert on **known threats**. Its high recall across all attack types (especially the 81% for 'Infilteration') ensures maximum coverage against the attacks we know how to identify.

By running these two models in parallel, we create a system that is both **reliable against the unknown** and **comprehensive against the known**, giving you the best of both worlds.