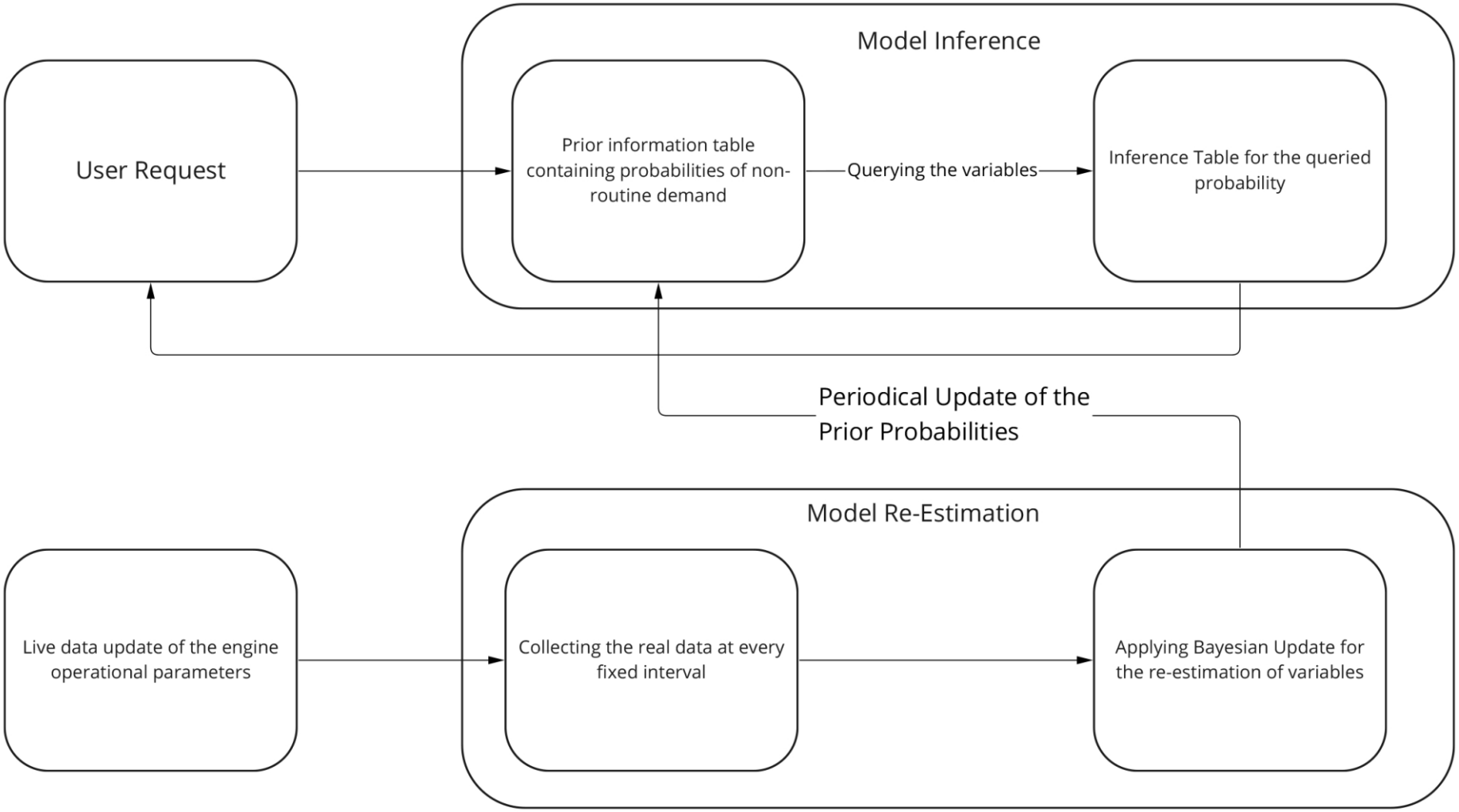

Model Inference
User Request
Prior information table containing probabilities of non-routine demand
Querying the variables
Inference Table for the queried probability
Periodical Update of the Prior Probabilities
Model Re-Estimation
Live data update of the engine operational parameters
Collecting the real data at every fixed interval
Applying Bayesian Update for the re-estimation of variables