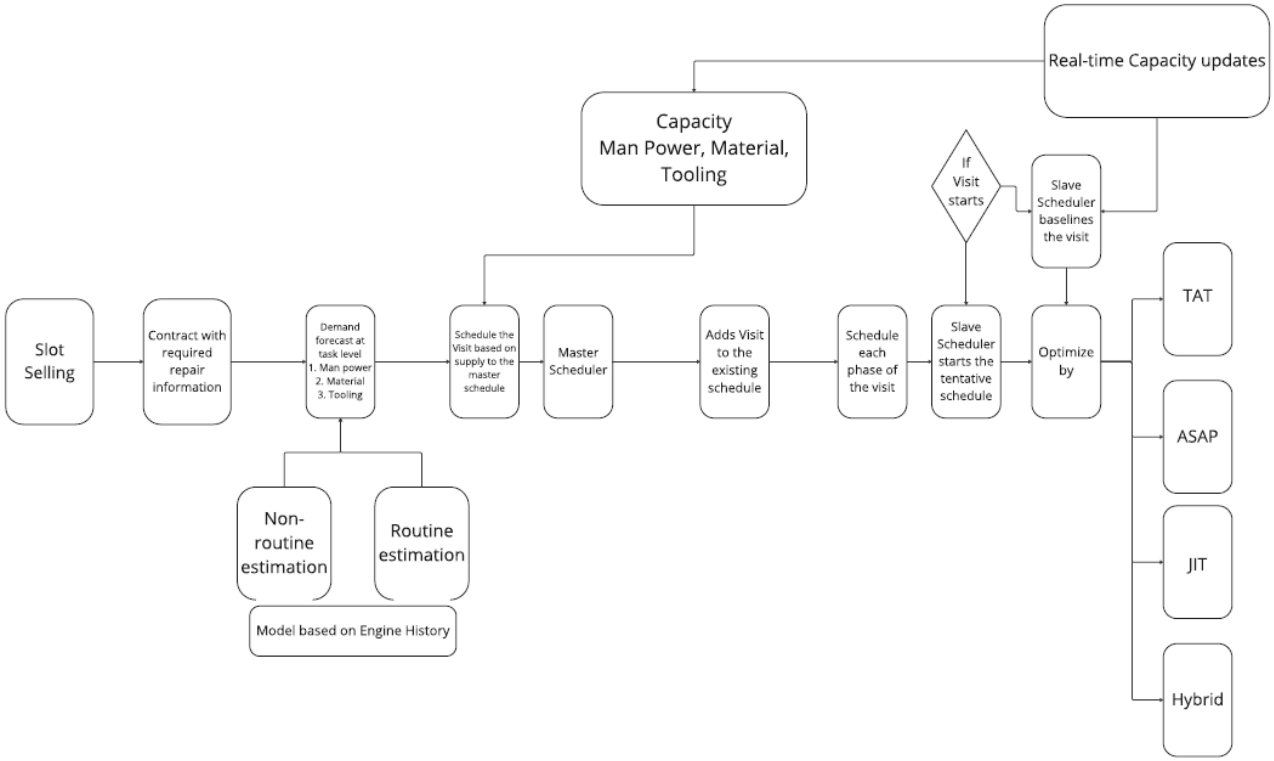

Real-time Capacity updates
Capacity
Man Power, Material, Tooling
If Visit starts
Slave Scheduler baselines the visit
Slot Selling
Contract with required repair information
Demand forecast at task level
1. Man power
2. Material
3. Tooling
Schedule the Visit based on supply to the master schedule
Master Scheduler
Adds Visit to the existing schedule
Schedule each phase of the visit
Slave Scheduler starts the tentative schedule
Optimize by
TAT
ASAP
JIT
Hybrid
Non-routine estimation
Routine estimation
Model based on Engine History

Figure 1

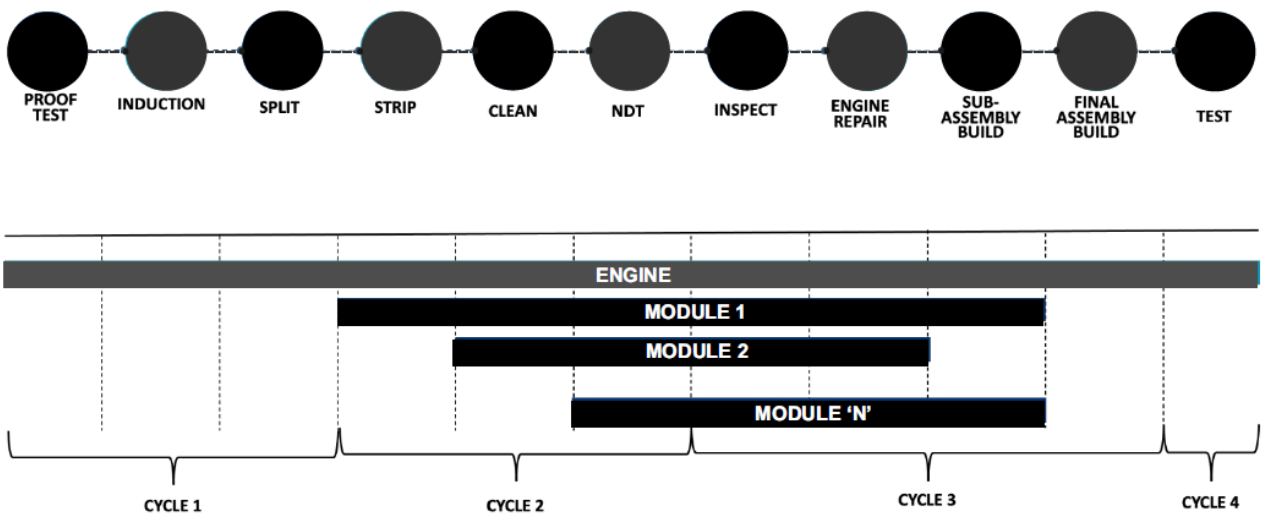

PROOF TEST
INDUCTION
SPLIT
STRIP
CLEAN
NDT
INSPECT
ENGINE REPAIR
SUB-ASSEMBLY BUILD
FINAL ASSEMBLY BUILD
TEST
ENGINE
MODULE 1
MODULE 2
MODULE 'N'
CYCLE 1
CYCLE 2
CYCLE 3
CYCLE 4

Figure 2

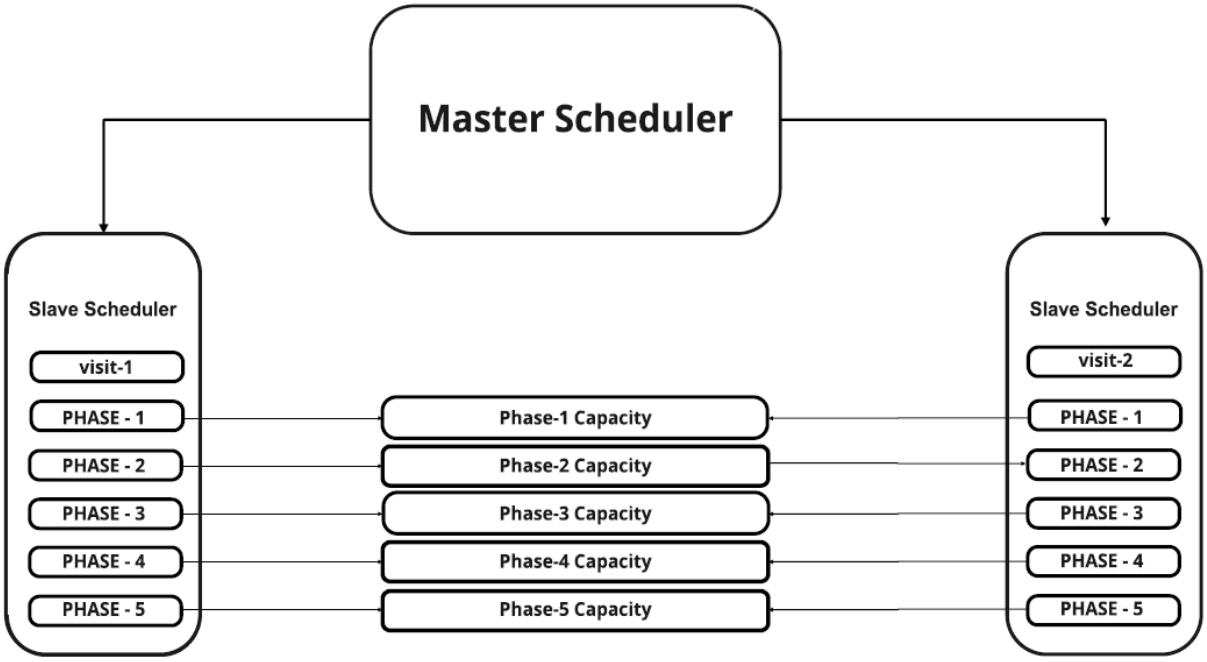

Master Scheduler
Slave Scheduler
visit-1
PHASE - 1
PHASE - 2
PHASE - 3
PHASE - 4
PHASE - 5
Phase-1 Capacity
Phase-2 Capacity
Phase-3 Capacity
Phase-4 Capacity
Phase-5 Capacity
Slave Scheduler
visit-2
PHASE - 1
PHASE - 2
PHASE - 3
PHASE - 4
PHASE - 5

Figure 3

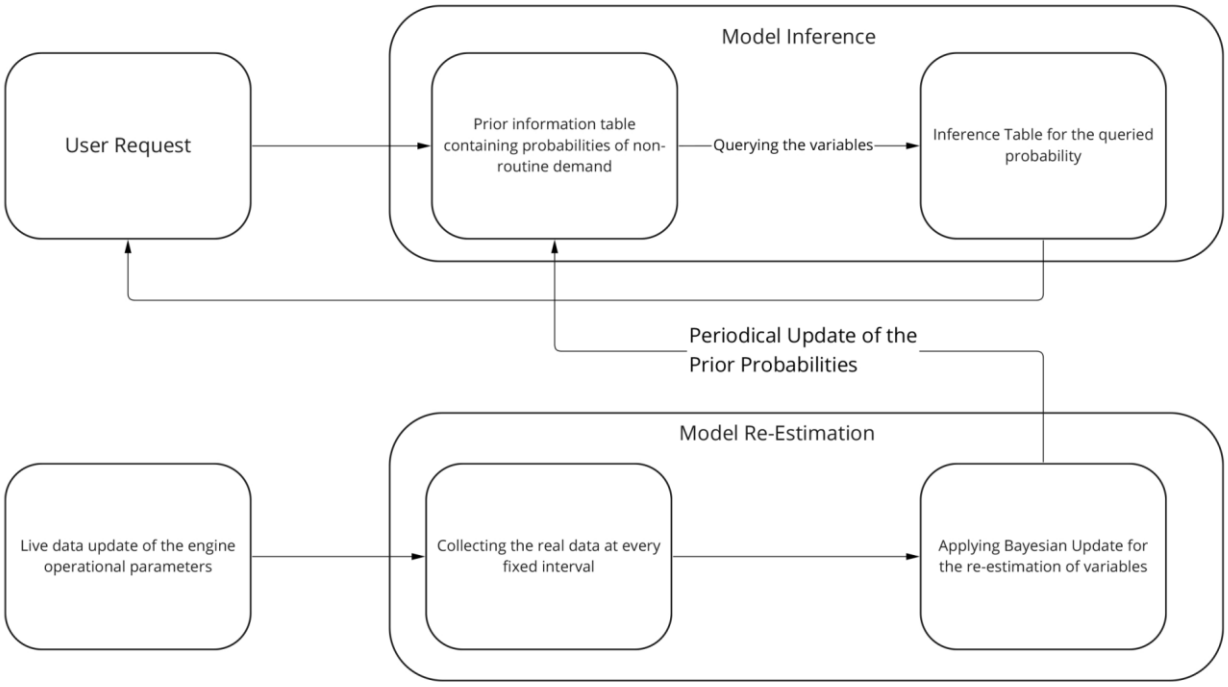

Model Inference
User Request
Prior information table containing probabilities of non-routine demand
Querying the variables
Inference Table for the queried probability
Periodical Update of the Prior Probabilities
Model Re-Estimation
Live data update of the engine operational parameters
Collecting the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

Figure 4

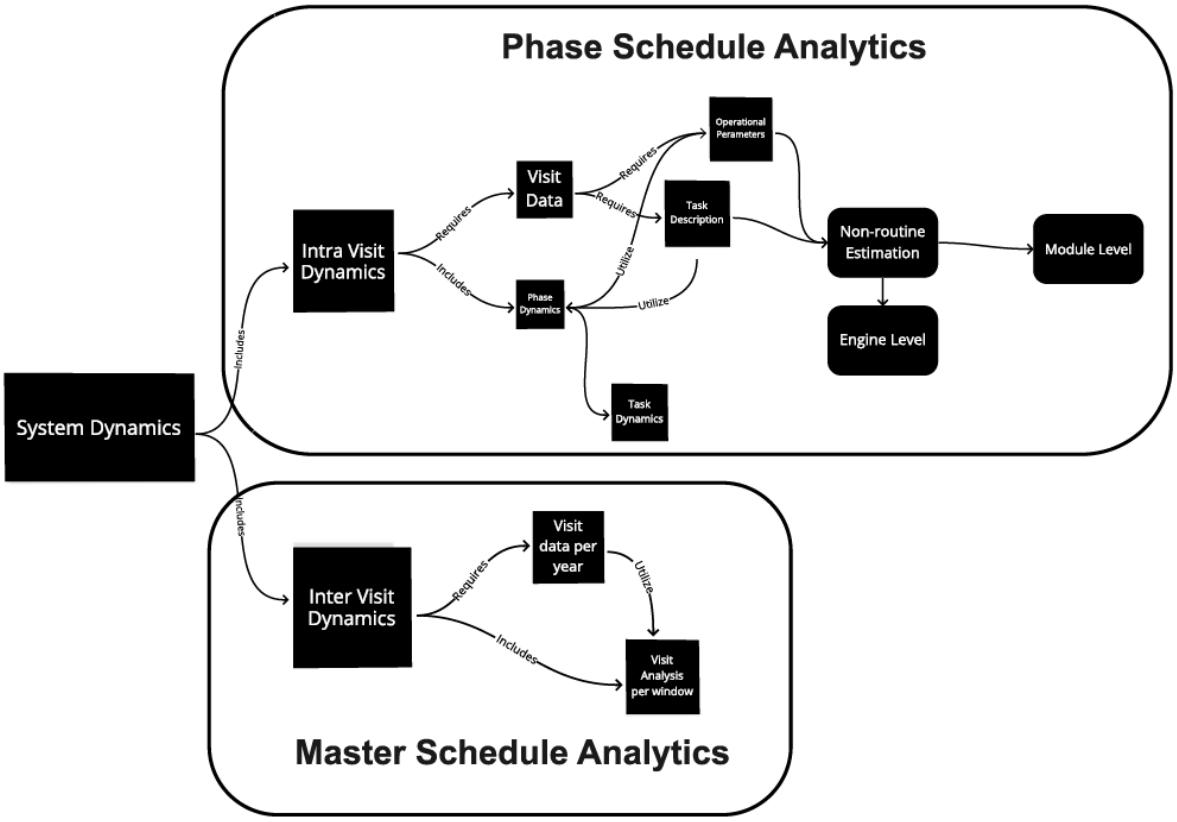

Phase Schedule Analytics
Operational Perameters
Visit Data
Requires
Requires
Task Description
Intra Visit Dynamics
Requires
Includes
Phase Dynamics
Utilize
Utilize
Non-routine Estimation
Module Level
Engine Level
Task Dynamics
System Dynamics
Includes
Includes
Visit data per year
Inter Visit Dynamics
Requires
Utilize
Includes
Visit Analysis per window
Master Schedule Analytics

Figure 5