Standalone 3rd year CS projects or also extensible as industry projects (2nd semester, in lieu of industry placements) suggestions – 2020

Practical oriented:

1. Demand-supply chain management optimized solution under emergency conditions: role of regional economic centres that collect products, distribute to fixed regional sub-centres, and finally last mile distribution (which keeps track of demand)
2. E-gov: a PoC on interoperability across govt institutions (eg banks, tax, registrar general, MoT,..) for the convenience of customers using blockchain and smart contracts (DAML based)
3. E-health: govt hospital linked patient record management based on hyperledger/couchdb/pki
4. E-agri: tea estate management solution extension – containerization for cloud deployment, handheld device integration, GIS/sensory data inclusion

Research oriented:

1. Solutions for fair allocation of university courses among candidates based on VRP and graph matching (a localized solution)
2. DEBS 2020 grand challenge on non intrusive load monitoring for electricity

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2020.04.24.