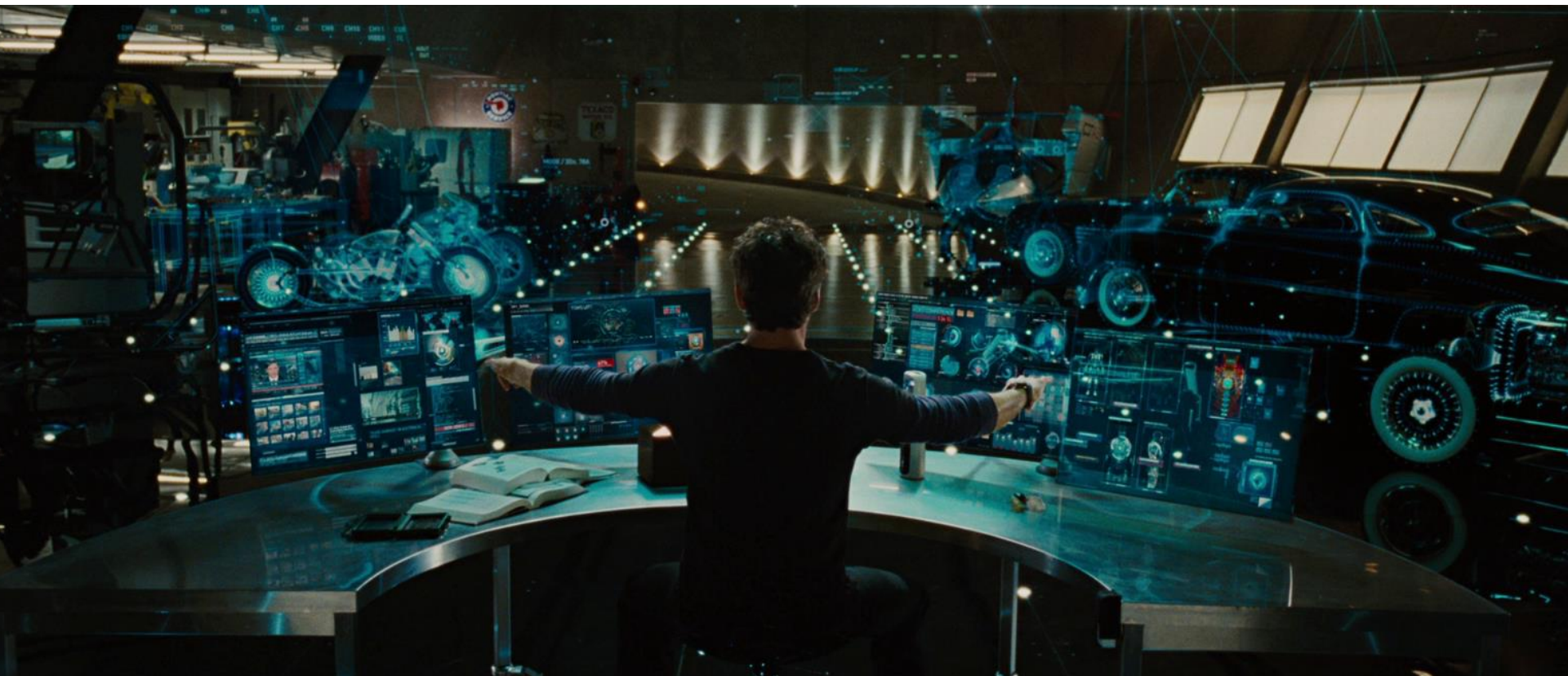**Legal Innovation and Technology (LIT) Hackathon**

J.A.M. (Joint Analysis Methodology) System

LITT

J.A.M. (Joint Analysis Methodology) System

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Problem:
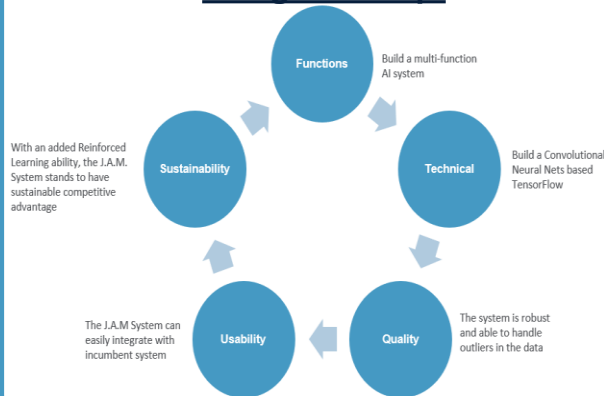• Lawyers face arduous and long research processes

Objective:
• Leverage on data and Machine Learning for predictive analysis of case success probability
• Enable lawyers to have quick access to the most relevant information in a simple and efficient manner

Current Status:
• Phase 01: Problem Identification and Issue Diagnosis– **Completed**
• Phase 02: Proof-of-Concept– **In Progress**
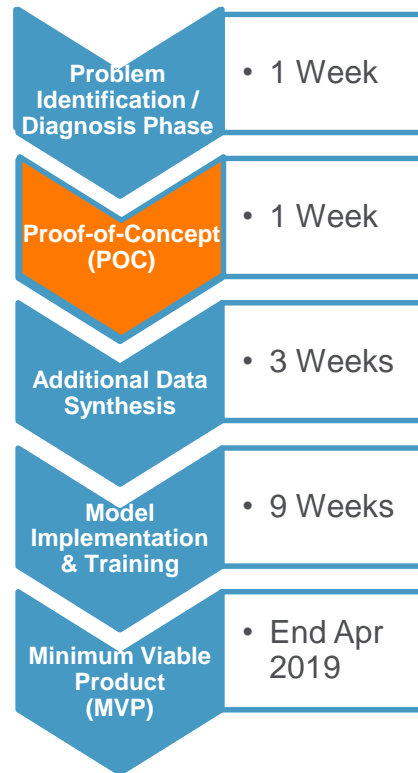• Phase 03: Additional Data Synthesis– **Pending**

Design Concept

Functions — Build a multi-function AI system

Technical — Build a Convolutional Neural Nets based TensorFlow

Sustainability — With an added Reinforced Learning ability, the J.A.M System stands to have sustainable competitive advantage

Usability — The J.A.M System can easily integrate with incumbent system

Quality — The system is robust and able to handle outliers in the data
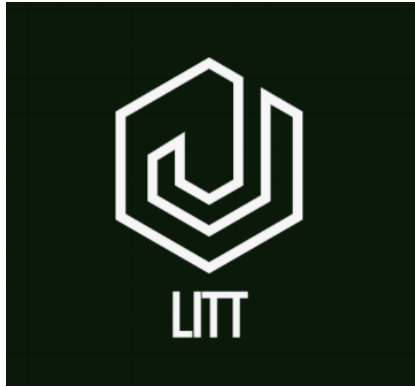
Major Deliverables

• **Problem Statement 2 [POC]**
A Machine Learning (ML) model that assists lawyers in searching for the most relevant cases while on-the-go (with potential for reinforcement learning)

• **Problem Statement 8 [MVP]**
A ML algorithm that leverages on text-mining and data analytics to analogise cases to predict cases success probability

• **Problem Statement 3 [POC]**
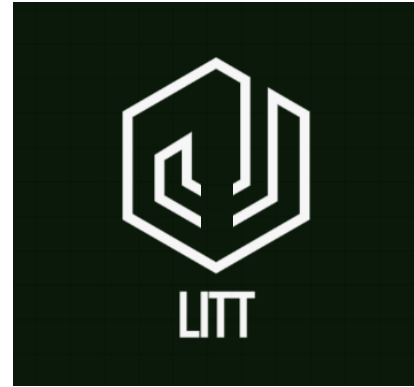Is addressed when solving Problem Statement 2 & 8

Project Timeline

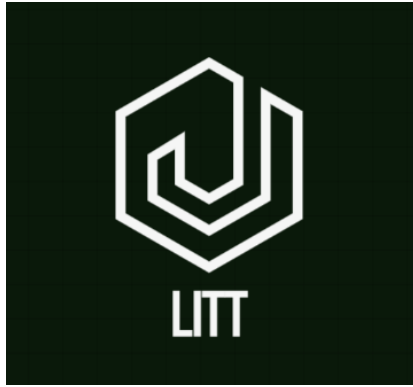| Phase	Duration
Problem Identification / Diagnosis Phase	• 1 Week
Proof-of-Concept (POC)	• 1 Week
Additional Data Synthesis	• 3 Weeks
Model Implementation & Training	• 9 Weeks
Minimum Viable Product (MVP)	• End Apr 2019

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Gantt Chart

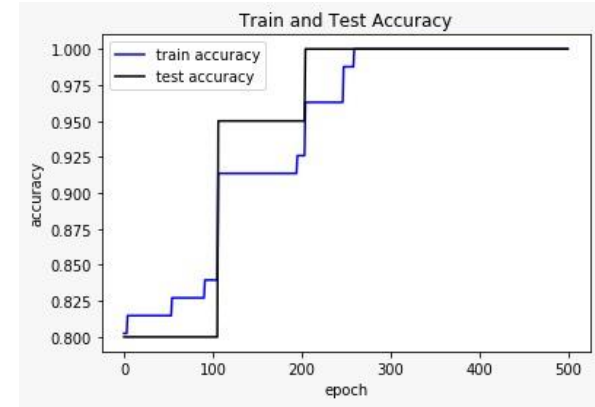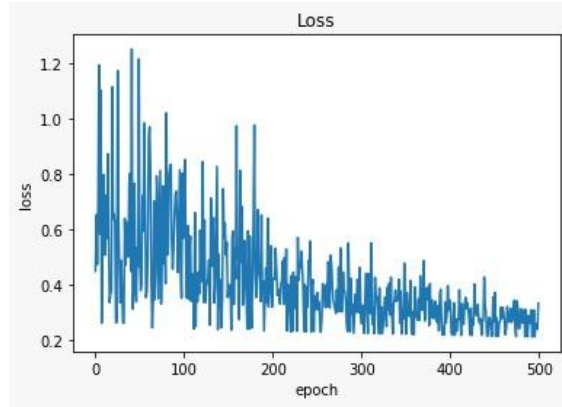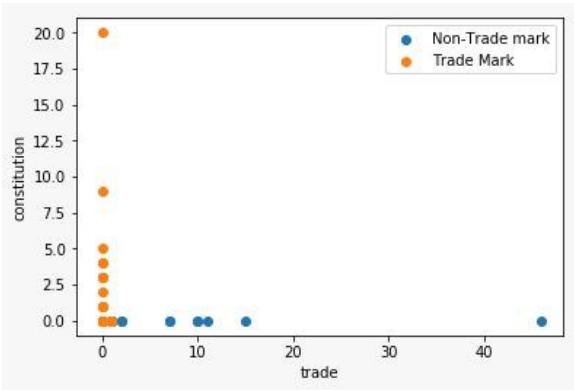| Month		Jan'19		Feb'19				Mar'19				Apr'19			
Week		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
J.A.M. (Joint Analysis Methology) System Overall Project Plan	**Date (Monday)**	21	28	4	11	18	25	4	11	18	25	1	8	15	22	29
Item / Task & Activities	**Status**															
1 Problem Identification / Diagnosis	Completed	▨	▨													
2 Define Problem Statement	Completed		▨													
3 Concept and Feasibility Tests	Completed		▨													
4 Selection of Final Concept	Completed		▨													
5 Proof-of-Concept (Preliminary AI System Review)	Completed		▨													
6 Detailed Design Review	Pending			▨												
7 Additional Data Synthesis				▨	▨											
8 Update AI System Framework Design & Specification						▨	▨									
9 Initialize AI System Framework Implementation Process								▨	▨	▨	▨					
10 AI System Framework Implementation Process											▨	▨				
11 Assess Alpha Test & Qualification Plan												▨	▨			
12 Validate Alpha Framework Design													▨			
13 AI System Framework Design Verification Review															▨	▨	
14 Report Preparation																	▨

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J.A.M. (Joint Analysis Methodology) System

End

Case Classifier (SVM)

Win-rate Prediction (Logistic Regression)

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