Technical Program Managers role in Data Science environment

TPM makes sure she keeps a Planner ( Tasks) in Microsoft Planner. Tasks can be

**TPM Understands the Problem given by the business**

1. Is this a Regression problem (like predicting the value of the house?)

2. Is this a classification problem (like good email or spam email?) ( like classifying news - education news, or sports for example)

3. Is this a Recommendation system ( are we recommending what news to watch next, or what song to listen next)

4. Is this a Clustering problem - Unsupervised and we just want to explore the Patterns in the given Dataset

5. How we are going to measure the success of this Data Science Project - KPI ( for example this system will accurately predict the location of the Brand and this will help us gain 2 million $ per year - because there is not going to be ant errors)

**KPI = 98% Accuracy , 100% automation and only 3% Error rates and Customer satisfaction > 98%**

**TPM creates a Sprint Plan using tools like Microsoft Planner or JIRA**

1. Did we identify the resources where Data will come from ( INPUT)? for example Macy.com, Instagram, Blogs, tweets

2. Who is writing to code to ingest from these identified resources?

3. Where the ingested dataset will persist ( MySQL or MongoDB)

4. Who is doing the cleansing of the dataset? is the Data dirty? are we doing Standardization, de-duplication of data?

5. What are we predicting? or recommending?

6. Which Machine Learning is BEST for this project? Who is reading the latest research papers for this type of problem?

7. Next, who is creating the Machine Learning model?

8. What is the Accuracy of the model this week? and last week? What was our Goal?

9. Work with Data Engineering team -> Who will deploy the backend in cloud AWS?

10. Where is the front end ? are we writing Front end using html? or not. As several Machine Learning projects do not require backend

11. So,

Front end = html / CS

Middle tier = Flask

Backend = Node JS / ML model

ML Algo comes from Scikit learn

12 . Who is going to deploy into the cloud?

13 who is doing the QA?

14 who will give the final demo to Business and take the feedback