

Assessment - Product Analyst Pavan Naik

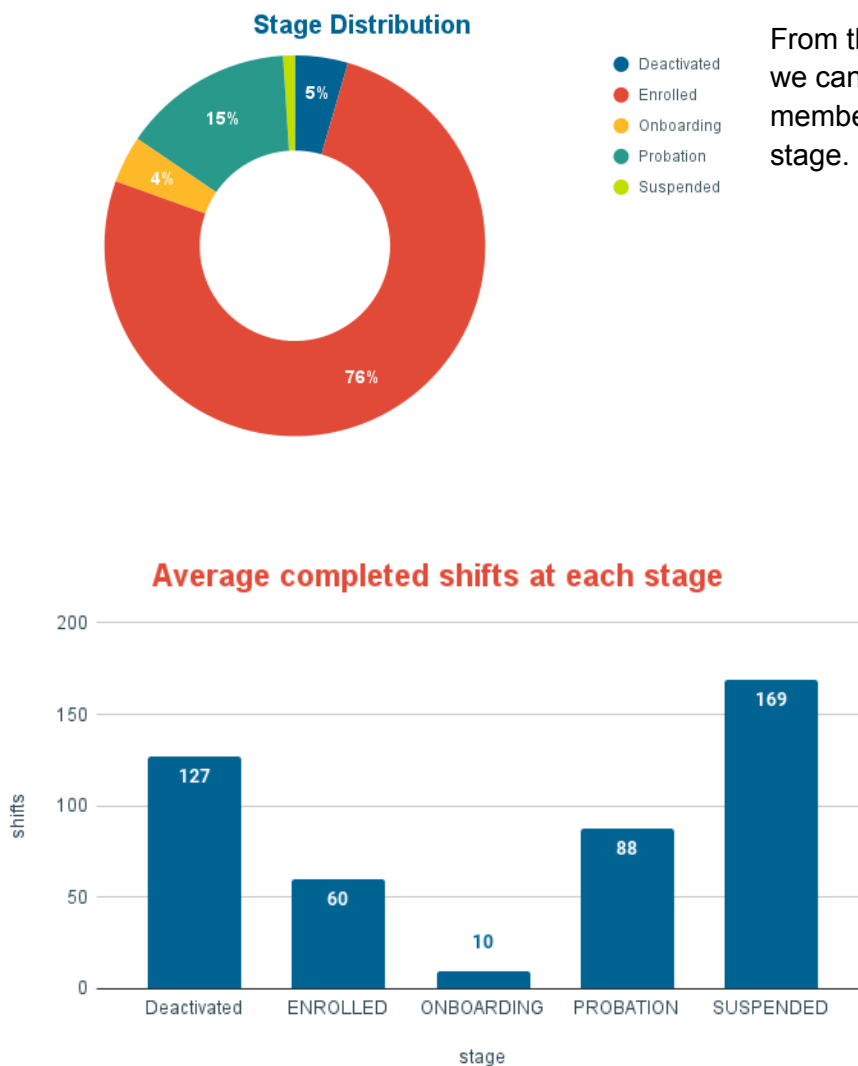
Assumption:

Charge is the hourly pay rate for the staff member.

Analysis Workflow:

- EDA of individual sheets (shifts and hcps) in excel
- Analysis of joined data on Tableau
- Tableau Dashboard

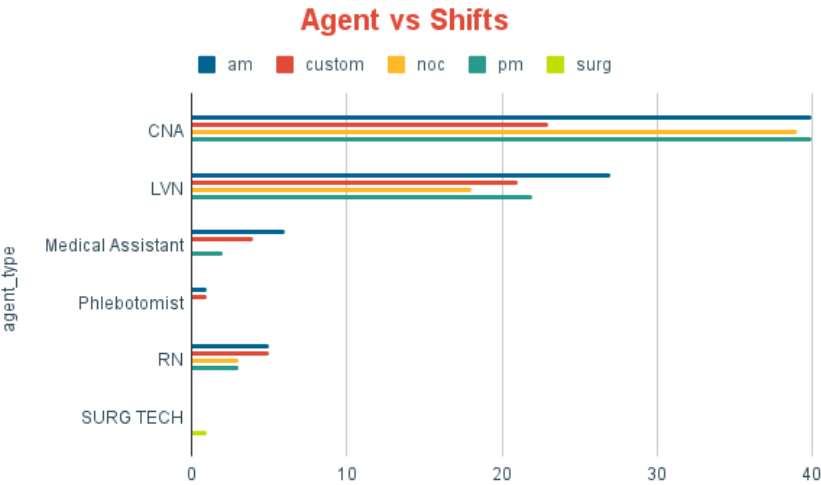
Exploratory Data Analysis:



From the stage distribution chart we can see that most of the staff members are in the **enrolled** stage.

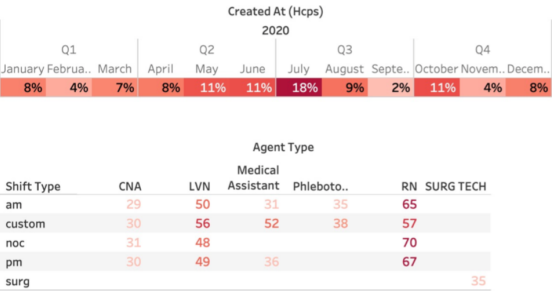
The average completed shifts indicate that on average staff members in the **suspended** stage completed **169 shifts** as compared to that in the **enrolled** stage completed around **60 shifts**.

CNA agents completed most shifts across am, pm and surg.

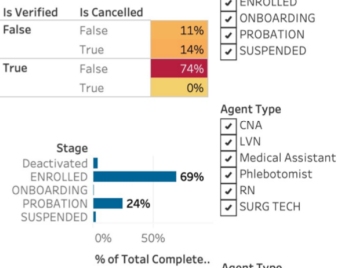


Analysis (Tableau):

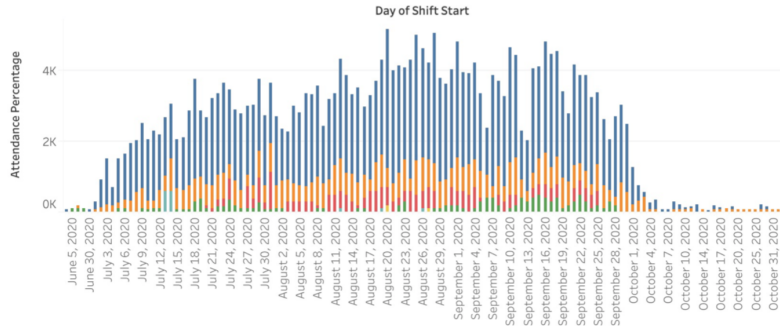
Healthcare Provider Shifts



Verified Agents



Attendance Timeline



Agent Distribution



In the above dashboard I have tried to analyze some metrics and gather insights from the dataset.

I have performed a left join on hcp_id to match healthcare providers with their shifts.

- The maximum number of shifts for healthcare providers were in the month of **July**
- **74% of the agents were verified** whereas 11% were not cancelled and unverified.
- Around **69%** of the staff members are in the **enrolled stage**.
- **Registered Nurses are highly charged with an average of 64.75** of which **nursing outcome classification** (noc) were the highest with an **average charge of 70**.
- **CNA agents** completed most shifts with a record of **2575** in the given time.
- Based on the timeline Phlebotomists worked only on 13th, 14th of July and 12th, 19th and 26th of August and Surg tech only on the 20th and 27th of August.

From the above information we can clearly see that there is an unequal distribution in the demand supply chain for healthcare providers amongst the various agent types. Also, a significant amount of the staff members are not verified.