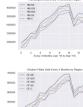
CALVIN TAM'S SUBMISSION FOR HOMEWORK 2 OF DSC 106 (DATA VISUALIZATIONS COURSE) AT THE VERSITY OF CALIFORNIA, SAN DIEGO (BETTER KNOWN AS UCSD):-)



So Mr. CEO, let's just jump right to it. I wa able to take a look at the data you supplie me. As you can see from just som preliminary analysis of the monthly dat below, we can see that the introduction o the Impossible Burger had some impact or our sales.

our sales.

If you look at the first set of charts I wanted to show you how the sa burger changed from January 20 September 2019. The first row shows the average number of product every three months. Rig the 10th increment (October December 2018), there was a star sale foes all three products. Now j simple analysts opinion, it see clear that the impossible Burger I number to our sales. Our trajecto was growing quite well before, bu a sharp turn after that fateful months. set of charts to our how the sales of January 2016 to first row of ci number of sales months. Right ard t (October 201 _____ around
ber 2018 stark drop in
ow just from a
seems pretty
ger has done a
ectory in sales
but it all took

Right now, before you continue reading. I would highly recommend for McDonald's to consider some more mealess options. like a Veggie Burger. Our sales have seemingly dropped and now plateaued after those darn Burger King geniuses. We should definitely try to roll out a vegetarian option for our customers, and for your company's sake.

Now, to continue where we left off, if we were to take a look at the average sales by every month in the year, we can see the different rends of sales that each month brings. On the right, I have shown a few line charts depicting the average sales every month for each product. The x-axis is sorted from January to December (0 - 11), If we look just at the hamburgers, we can see that the sales seem to spike around February, May, August, and November. And there are dips between these months. This trend seems to recur amongst all the purpose, and it is pretty consistent amongst all the regions. This trend shows that, basically every three months, we have one month of great sales.

additionally, we see that the tortheastern regions typically do the sest in all three products, with outhwestern and northwestern region and northwestern region and and 2nd/3rd best. The central and outheastern regions typically do the vorst.

On the bright side, the introduction of the Impossible Burger seems to not haw changed the types of burger being sold. By that, if you look at the pie chart below and compare them to the two to the right, you virtually see no difference in the percentages. The proportion of sales from each type of burger did not change, with the majority coming from hamburgers, then chicken fillets, and the least from fish fillets. Personally, this appears to be great news because that is one less thing to think about, knowing that the types of sales are not changing,

Now looking deeper at the daily sales data, there seems to be a pattern specifically in the fish fillets. We can se that for some reason, the sales on Day 4 (Friday) does the best in the week, with the weekday sales leading up to Friday slowly rising.

My current guess would be that customers are LOVIN' those Fish Friday's, so trying to market for r fish fillet sales on Fridays would great idea. One more unusual thing to note for fillet sales is that, the Friday sales happens strictly for all the region see except the northeastern region. The northeastern region arem to northeastern region seems to back one day unusually, almost like they are living in a different with they are living in a different with they are living in a different with where their Fridays are everyone el archard where their Fridays are everyone el entry error or a different time systematic and the systematic archard the systematic and the systematic archard the syst

oking at the sales of s don't seem to follo es occurring every f the other two categories, not much else can bee said. w an obvious trend for specific days of the week, with ew days.

