https://github.com/ASIVEMNQUMENI/JobAnalysi here is the link to my GitHub account, there you can find Code, both cleaned and dirty datasets.

INTRODUCTION

Hey, Asive here.For this Job analysis Project, i started off by creating a bot that scrapes the relavent data from a job posting website for analysis. I used selenium in python to do that. I then used fuctions which i created to extracted some keywords from the job descriptions, such as skills and the qualificattions required for that particular posting. You can click here to view the code from my social account. You can also find both the dirty and the cleaned datasets here.

I chose this project particularly, to see if i'm on the right paths as i pursue a career in data science/engineering. by the end of this visualisation/analysis, i should be able to determine if my skillset sets me apart from others or what. i have a BSc (Mathematics & Physics) and a Google Data Analytic certificate(6 months). for the technical skills, i use R,Python,Tableau,SQL as weel as MS Office.
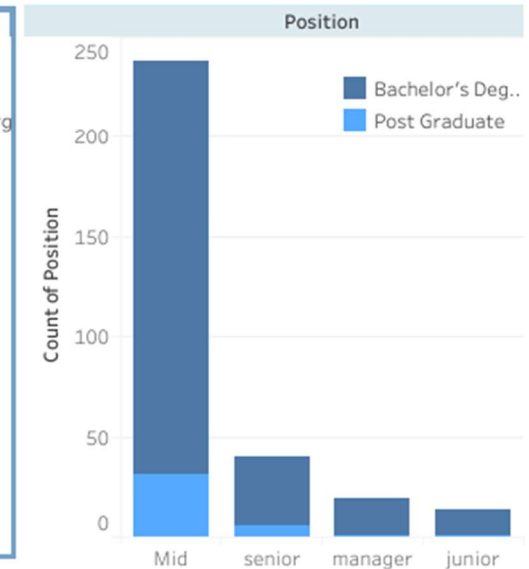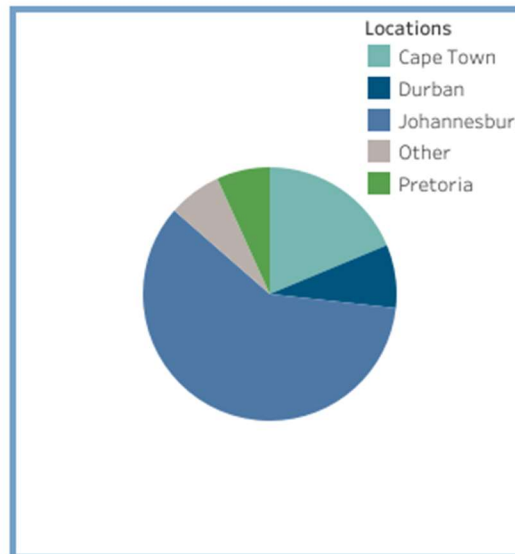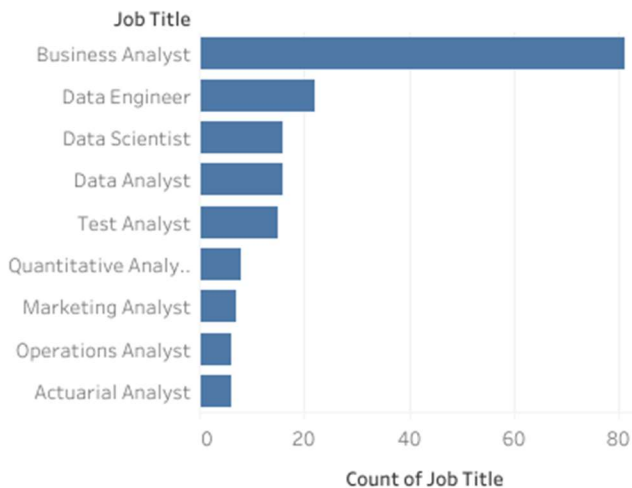
asivenatho@gmail.com

JOB ANALYSIS (DATA ANALYSIS)
Mnqimeni Asive

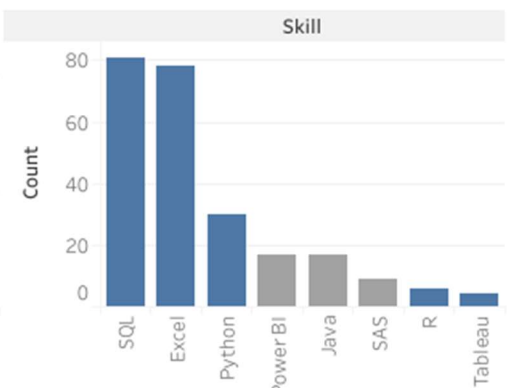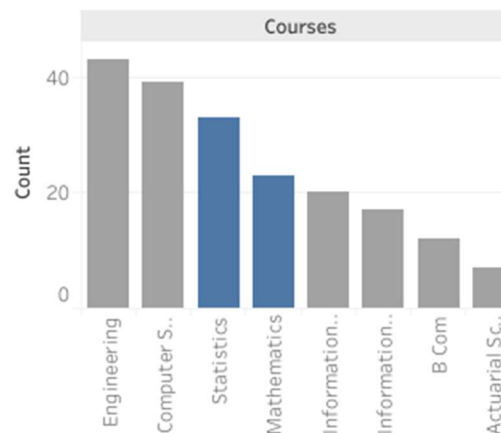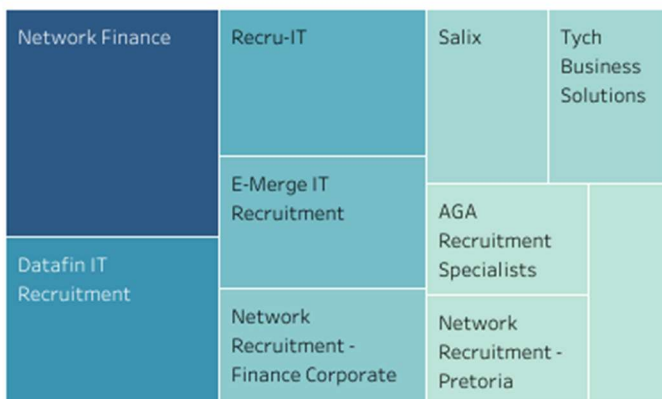From this tab, we notice that the most popular career is Business Analyst and that came as no suprise to me. However, one should keep in mind that they are all data related jobs - so if you qualify for one, you are most likely to qualify for the other.

From the qualification plot, Engineering happend to be the most popular. this may be due to the fact that i have decided to exclude some information about "Information Technology" as it was mostly written as "IT" and the computer could easily confuse that with the word "it" when extracting it from the job description as everything was made lower case for efficieny.

Most Common Job Titles

Job Title

- Business Analyst
- Data Engineer
- Data Scientist
- Data Analyst
- Test Analyst
- Quantitative Analy..
- Marketing Analyst
- Operations Analyst
- Actuarial Analyst

Count of Job Title (0, 20, 40, 60, 80)

Locations
- Cape Town
- Durban
- Johannesburg
- Other
- Pretoria

Position

Bachelor's Deg..
Post Graduate

Count of Position (0, 50, 100, 150, 200, 250)

Mid, senior, manager, junior

Top 10 Companies

- Network Finance
- Recru-IT
- Salix
- Tych Business Solutions
- E-Merge IT Recruitment
- AGA Recruitment Specialists
- Datafin IT Recruitment
- Network Recruitment - Finance Corporate
- Network Recruitment - Pretoria

Courses

Count (0, 20, 40)

Engineering, Computer S.., Statistics, Mathematics, Information.., Information.., B Com, Actuarial Sc..

Skill

Count (0, 20, 40, 60, 80)

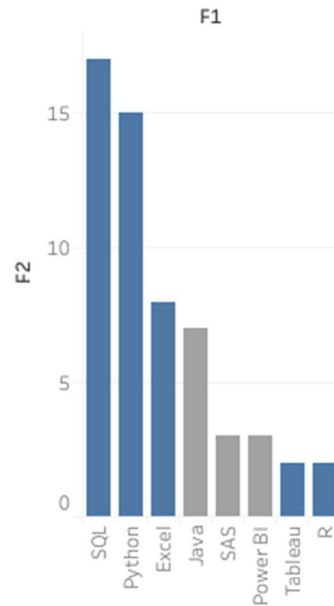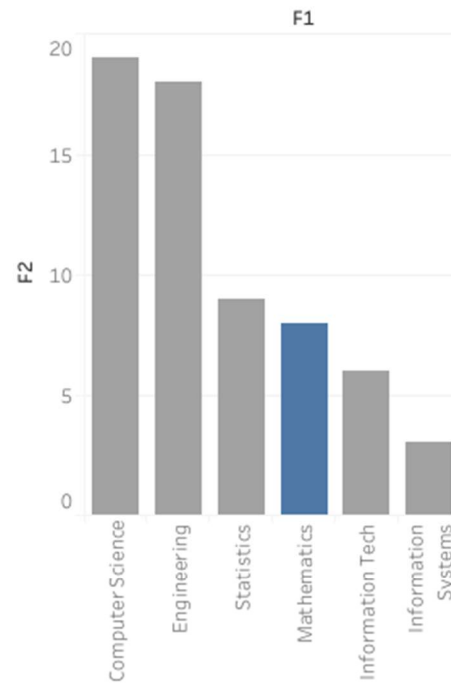SQL, Excel, Python, Power BI, Java, SAS, R, Tableau

DATA SCIENCE/ENGINEERING

-The two graphs below show the analysis for two careers in particular, these are the careers i wish to pursue and i have highlighted the skills and the qualification i have to see if i'm on the right path. As far as i can tell, i think i'm doing pretty well.
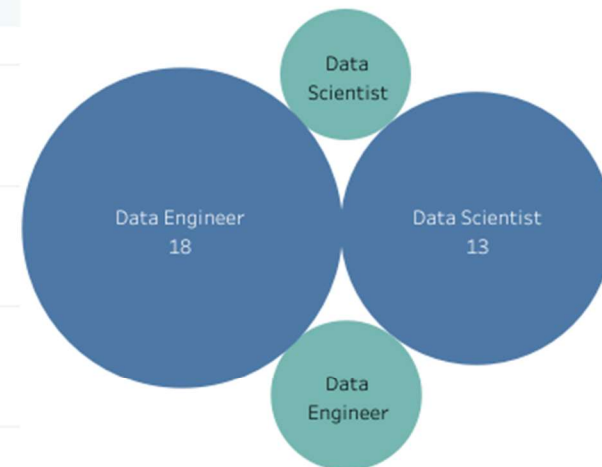
■ Bachelor's Degree
■ Post Graduate

Skills

F1

Skills (x-axis): SQL, Python, Excel, Java, SAS, Power BI, Tableau, R

Qualifications

F1

Qualifications (x-axis): Computer Science, Engineering, Statistics, Mathematics, Information Tech, Information Systems

Data Scientist
Data Engineer 18
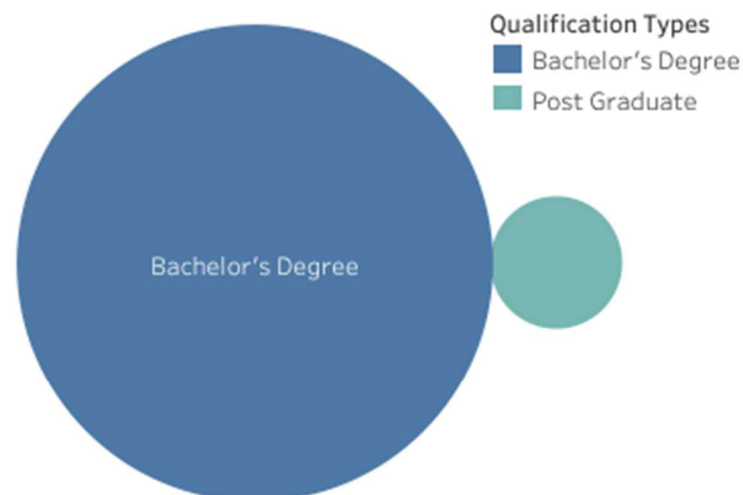Data Scientist 13
Data Engineer

Jobs posted on the past 2 weeks

JOB ANALYSIS FOR JUNIORS

Here we can see that out of 314 jobs posted in the past 2 weeks which i managed to scrape, only about 10 of those were for the juniors. which is kinda looking scary for a person like me as i dont have any proffesional experience at the moment.

Companies that posted jobs for juniors

	Job Title			
Company	Actuarial Analyst	Business Analyst	Data Analyst	Data Engineer
Carlysle Tal..			1	
NCLC			2	
Network Re..	1			
Parvana	1	1		
Quest Staff..		1		
Secondmen..		1		
Six Sense C..			1	
Swan iT Rec..		1		
Top Recruit..				1

Qualification Types
- Bachelor's Degree
- Post Graduate

Bachelor's Degree

CONCLUSSION

From this analysis, we can see from the summary dashboard that the data related jobs are mostly populated in Gauteng province. Also, we see that the post graduate qualification is really not a must, out of 314 jobs only 43 of them required a post grad. We also notice that there are fewer opportunities available for graduates who want to start a career on these field.

With that bieng said, i still think that with the skills and the qualification i have, i stand a fairly good chance of getting noticed by the employers. There's still a room for impprovement though...

Thank you for your time.

Mnqumeni Asive