Viewing the trends of the Data Analytics field through the lens of its history gives insight into the skills and experience that are most sought after as well as the companies and geographic areas which offer the best salaries and employment conditions.

The use of analytics by business can be found as far back as the 19th century when Frederick Winslow Taylor initiated time management exercises to improve industrial efficiency. In the late 1930s, analytics began receiving more attention as computers became decision-making support systems. Data analytics has evolved significantly with the development of big data, data warehouses, and a variety of software and hardware.

A person with a mustache

Description automatically generated

The development of relational databases in the 1970s and non-relational databases with the advancement of the internet in the 1990s ushered in the era of Big Data and a new frontier for employment opportunities in analytics. The origin of the modern data analyst was born out of the use case demands of the internet. Over the past 10 years, the need for data analysts has grown exponentially as more people and companies expand their exposure to the internet.

This program provides a customizable tool for prospective data analysts by scraping hiring data from a variety of employment and federal labor statistics websites, building an active RDS Database, and analyzing with PostgreSQL which will enable strategizing skill development to optimize career planning.

Utilizing these skills will provide an advantage for the Data Analytics and Visualization Bootcamp students as we enter the job market.

*The demand curve for Data Analytics, when did it really start?*

Our analysis demonstrates:

##### Open source advancements have simplified the learning curve of adoption of computer programming.

Using \_\_\_\_\_\_\_\_ , we show that the data indicates the most in-demand skills per industry/fields are :

(chart here)

(code screen shot)

Positive correlation between level of skills and future proofing job security is demonstrated using \_\_\_\_\_:

(chart/code screen shot here)

We used \_\_\_\_\_\_\_\_\_\_ to find average Salary ranges and compensation.

(chart/code screen shot/url here)

The amount of experience and qualifications most requested in job postings:

(chart/code screen shot/url here)

*Does gender/race/age have a role in demand growth?*

Current demographics of the field/hiring firms

(chart/code screen shot/url here)

*Which industries have the highest growth? Why? Related to technology? Related to compensation?*

(chart/code screen shot/url here)

The top 3 geographical areas of highest demand as demonstrated using \_\_\_\_\_ are \_\_\_\_\_:

(chart/code screen shot/url here)