

Project Title: Demands for Data Analyst Roles

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Project Description/Outline:

The goal of this project is to highlight any trends for data analyst positions in the current job market and analyze different aspects of the job title

Research Questions to Answer:

- What is the number of data analyst positions that are open?
- What are the average salaries of junior and senior data analysts?
- What keywords or skills are in demand in this role?
- Where is the demand for analyst role? A specific region?
- Number of data analyst applications submitted vs. total/applications submitted in tech industry.
- Job qualifications, preferred qualifications, responsibilities

Data Sets to be Used:

- LinkedIn API
- Indeed API
- Bureau of Labor Statistic
- Glassdoor Dataset

Rough Breakdown of Tasks:

- Find datasets
- Job search API
- Clean Data sets

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- background story: ratio, gender
- history → trend
- what is the demand in this area?
- what programming language
- what companies are are looking?

- Required skills : soft and hard
- Average salaries

- Trip → Education among google job skills dataset
- Karen: history → demand, growth , job postings

- **Nay: education requirement? Who's currently in this field? What industries did they come from?**

Hypothesis Testing:

Hypothesis Statement:

Trip: If Data Analytics is a discrete field, then the programming languages needed for Data Analyst positions at Google will be significantly different than the programming languages needed for other job types.

H_0 : ?

H_A : ?

Nay: If individuals obtain advanced degrees (>Bachelors), then they are more likely to obtain a data science job.

H_0 : There is no difference in the number of data analysts with advance degrees vs. number of data analyst with regular degrees.

H_A : There is a difference in the numbers of data analysts hired who has advanced degrees.

Outline: World

- **Nay: World**
- **Lynn: Monster. In the world → by region, skills, most language is popular in this type of jobs**
 - **Region vs job**
 - **5 job titles: which languages pop us most**
 - **Sunday.**

- Trip: Google level.
 - What level of edu in each group level
 - Programming languages
- Karen: Historical Data. Change of medium salary, change in salary
- Ali: Introduction
 - Why we choose this project?
 - API
 - Observations - 3.