Thinkful: Career planning document

This document will collect and organize your work in the career planning lesson of the prep course. Complete each section after reviewing the relevant assignment in the course material.

## Section 1: Explore the landscape

A broadest definition I came across of a data scientist is someone who takes raw data and extracts useful information from it. Using various hard skills such as programming, Statistics, and Math and these hard skills demands soft skills such as communication, presentation, analytical and critical thinking skills. My view of a data scientist and Harlan’s presentation, I would most identify myself with the “data researcher”, who are scientist, researcher and statistician.

Although my experience in programming is lacking, I do see myself as a data researcher mainly because of my background in natural science. I had a keen interest in understanding underlying fundamental natural laws governing physical and chemical interactions. So naturally I participated in researches that were trying to discover some of those laws.

## Section 2: Job postings

*Find five job postings you're very interested in and post them here. Focus on one city. Don't just post the links; job postings have a way of disappearing after a while.*

### Job 1

* + Company name: nfinite Analytics'
  + Title: Data Scientist
  + Why did you choose this job?
    1. They use advanced data mining, text analytics, predictive models, advanced statistical models on an open source tech stack. This seems interesting and presents opportunities for learning many technologies.
  + Link: https://angel.co/infinite-analytics/jobs

### Job 2

* + Company name: Sentenai
  + Title: Data Scientist
  + Why did you choose this job?
    1. I have taken course in sensors at my graduate school and worked with medical technologies that required me to understand sensors. (except they want masters in CS.)
  + Link: https://angel.co/sentenai/jobs/209093-data-scientist

### Job 3

* + Company name: iQuartic
  + Title: AI/NLP/Data Scientist
  + Why did you choose this job?
    1. Automating and improving health care system seems like a good use of data science skills
  + Link: https://angel.co/iquartic-2/jobs/62831-ai-nlp-data-scientist

### Job 4

* + Company name: Mapdwell
  + Title: Geospatial Data Scientist
  + Why did you choose this job?
    1. Small, with potential to grow. I am interested in participating in solar energy. Seem like there are lots of skills to be learned.
  + Link: https://angel.co/mapdwell/jobs/341374-geospatial-data-scientist

### Job 5

* + Company name: SFL Scientific
  + Title: Data science consulting
  + Why did you choose this job?
    1. They seem to be in every sector of the business industries
  + Link: https://angel.co/sflscientific/jobs

## Section 3: Your company hitlist

*Find five dream companies (whether or not they're hiring data scientists right now) and add them to this hit list. Focus on the same city you did for job postings. Include a sentence about why you added each company.*

### Company 1

* + Company name: Pixar
  + Why did you choose this company?
    1. They are hiring research scientist but requires PhD in data science.
    2. I know some one who works in finance deparment, she loves it there and told me it’s a fun place to work.
    3. It’s a big company with lots of opportunities to advance and growth.

### Company 2

* + Company name: Boston Dynamics
  + Why did you choose this company?
    1. Company that is in forefront of innovation in robotics and automation.
    2. And I don’t have to move
    3. They are hiring but require me to know C++

### Company 3

* + Company name: Raytheon
  + Why did you choose this company?
    1. Close to where I live
    2. It was described as relaxed atmosphere, with good benefit
    3. Defense works, which might provide more opportunities

### Company 4

* + Company name: Thermofisher scientific
  + Why did you choose this company?
    1. Large company, located all over the world, lots of opportunities.
    2. Scientific research and developments

### Company 5

* + Company name: Tesla
  + Why did you choose this company?
    1. Research in energy storage.
    2. I like the company’s motto of ‘accelerating our transition to renewable energy’.
    3. Encouraging and advancing their employee’s career through higher education.
    4. Fun place to work, with lots of benefits

## Section 4: Find your people

*Add the data science related events in your area and find LinkedIn profiles for local data scientists working at the kind of job you want.*

### Local data science events:

* Data lab workshop – R and Python: April 21 at 10 am
* Maximize Your Digital Analytics Career Potential with John Lovett
* Boston Data Vis + MapD

### Local data scientist from a company on your hit list:

### Sumanyu Sharma -  **Data** Scientist at **Tesla**

### First or second degree connection in the industry:

### Emily Engie

## Section 5: Write your own story

*Make the work you've done so far concrete.*

### Describe your ideal job to an industry professional

As a Data Scientist at Tesla motors, I will be part of a team, tasked with developing data pipelines by implementing novel algorithms for retrieving, analyzing, and visualizing data. Applying statistical analysis on vehicle data to drive decision making in reliability. Extract useful statistics and usage profiles from the existing fielded fleet to drive accurate design requirements for next generation vehicles. Apply machine learning algorithms to predict degradation trends and create predictive maintenance schemes for the vehicle fleet. Create visualization methods to communicate data in a meaningful and actionable manner.

Starting with building a robust data infrastructure which requires me to know data structure, architectures and languages such as SQL. In addition to SQL, I will need to have knowledge of Hadoop (and some it’s libraries Hive, Spark, Implala) to handle large data sets. I could use these data infrastructure to analyze, communicate and automate data visualization and extraction. I will need to implement advance visualization techniques to convey complex analyses with intuitive visual methods, while effectively communicating findings. To accomplish analysis and visualization tasks, I will need to have advance knowledge of Python and it’s many libraries such as pandas, scipy, numpy, and Ipython.

### Describe the same job to a non-technical family member

I will be working at Tesla as a Data Scientist, helping to build electric cars that can be driven safely, reliably and farther than ever possible. Every part of the car generates large quantities of data, which needs to be studied. As a Data Scientist, I write codes that ensures the transfer of data to a data storage system safely and reliably. These data need to be interpreted and presented using latest technologies in data analysis, visualization and statistics. So, the best possible decision can be made to improve the cars in every aspect.

### Draft your aspirational professional summary

I will be working at Tesla as a Data Scientist, helping to build electric cars that can be driven safely, reliably and farther than ever possible. I will be part of a team, tasked with developing data pipelines by implementing novel algorithms for retrieving, analyzing, and visualizing data.