# 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

*Write your one to three paragraph reflection for assignment 4.1.1 here.*

Data Science is the extraction of knowledge from large volumes of data, which in my estimation is a continuation of the field data mining and predictive analytics. Data mining is the process of sorting through large data sets to identify patterns and establish relationships to solve problems through data analysis. The ultimate goal of data mining is prediction. As for predictive analysis, it is the use of data, statistical models or algorithms, machine learning techniques and sometimes artificial inteligence to make prediction about unknown future event based on historical data. The goal is to use the patterns found in historical data to providing a best assessment of what will happen in the future.

As far as my result go for the different surveys they were mostly spot on in describing what I believe my skills are and how they can help me become a good Data Scientist. For the Data Scientist Survey, I was identified as a Data Engineer with top skills in Math/OR. They explained that I have a more quantitative background than most Data Engineers, with likely graduate work in Math or Computer Science or Operations Research. Which is pretty accurate since I have a PHD in Applied Math. For the Data Science Radar Survey, I was identified as a Data Wrangler and I agreed with them when they said that I understand that defining the question and the approach to creating insight stems from getting thedata into a useable format which is something I have gotten to appreciate through the prep course.

## 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: Equifax
- ○ Title: **Data Driven Marketing – Jr Data Scientist**
- ○ Why did you choose this job? I chose this job because I liked that most of the statistical analysis will be done under the supervision of a Senior Data Scientist from which I could learn a lot and get feedback from. Plus in addition to

performing business/ marketing intelligence analysis, score development, and score validations I will be able to generate ways to solve analytical problems creatively and efficiently and have my work  review with Senior Data Scientist
  - Link: https://equifax.gr8people.com/index.gp?method=cappportal.showJob&layoutid=2092&inp1541=&inp1375=12261&opportunityid=12261

## Job 2

  - Company name: Travelport
  - Title: **2018 Data Scientist - Campus**
  - Why did you choose this job? I chose this job because I liked that the requirement was only for someone with 1-3 years of Data  experience with data science analytics including statistics, machine learning and data mining. Also since I love to travel I will be excited to help them apply big data analytics technologies to discover the information hidden in vast amounts of data, and help the company make smarter decisions to deliver even better products.
  - Link: https://www.indeed.com/rc/clk?jk=a646f584c9eeb930&fccid=423797cd29045c3e

### Job 3

  - Company name: Decooda
  - Title: **Data Scientist - Machine Learning / Predictive Analytics**
  - Why did you choose this job?  I chose this job because it involved creating output to explain data analysis, data visualization, and statistical modeling. And also creating R (Shiny) applications to create insights into their data, which is something that I feel data, Science is about and always wanted to be able to do. And finally this job seems to involve research, recommend and implement various Topics Modeling Approach, which I feel is something with my background will be able to do without any problem. And most importantly this is an Entry Level position.
  - Link: https://www.linkedin.com/jobs/view/506535782/?refId=421406215151191515313 8&trk=d_flagship3_search_srp_jobs&lipi=urn%3Ali%3Apage%3Ad_flagship3_s earch_srp_jobs%3B4%2F4l4WEcRGqesOQob82XHg%3D%3D&licu=urn%3Ali %3Acontrol%3Ad_flagship3_search_srp_jobs- A_jobssearch_job_result_click&lici=UsPPyIpsSnyNg3TNpV2rxQ%3D%3D
  - 

### Job 4

  - Company name: IBM

- Title: **Entry Level Data Scientist**
- Why did you choose this job? I chose this job because I  will be able to implement and validate predictive models and create and maintain statistical models with a focus on big data. I'll communicate with internal and external clients to understand business needs and provide analytical solutions. I will also use statistical concepts such as regression, time series, mixed model, Bayesian methods, clustering, etc., to analyze data and provide insights which is something I am very interested in learning how to do. I'll work in an agile, collaborative environment, partnering with other scientists, engineers, and database administrators of all backgrounds and disciplines to bring analytical rigor and statistical methods to the challenges of predicting behaviors.
- Link:
  https://krb-sjobs.brassring.com/TGnewUI/Search/Home/HomeWithPreLoad?PageType=JobDetails&partnerid=26059&siteid=5016&jobid=109730&codes=SN_Glassdoor#jobDetails=109730_5016

Job 5

- Company name: IBM
- Title: **Associate Data Scientist – Machine Learning**
- Why did you choose this job? I chose this job because the team I will be part of if I get hired will engage directly in solving real-world data science problems in a wide array of industries around the globe with IBM clients and internally to IBM. The elite team of data scientist will work with other IBMers and client data science teams to solve problems in banking, insurance, health care, manufacturing, oil & gas and automotive industries, to name a few. Also from the job description their make it clear that they will be teaching the people they hire they tool that they want them to have even though they are asking for people with a minimum of 1 year experience with
  - **coding skills in one of the following**: Python, R, Scala or Java. preference for Python.
  - **Creating machine learning pipelines** - data ingestion, feature engineering and model selection, training, validating and deploying.
  - working with APIs and Notebooks
  - Probability and Statistics
- Link:
  https://krb-sjobs.brassring.com/TGnewUI/Search/Home/HomeWithPreLoad?PageType=JobDetails&partnerid=26059&siteid=5016&jobid=123792&codes=SN_Glassdoor#jobDetails=123792_5016

# 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: Systematrix Solutions
- ○ Why did you choose this company? I chose because it is a A nimble, tactical and highly effective product development and consulting company specializing in solutions and technologies enhancing Compliance functions in the Financial services industry.

### Company 2

- ○ Company name: Aptonet
- ○ Why did you choose this company? I chose this company because its scope-based, pure technology execution branch and work can be done on-shore in the USA, or near-shore (an attractive, cost-effective, timezone-favorable alternative) and the fact that I speak French fluently will be an added benefit.

### Company 3

- ○ Company name: Travelport
- ○ Why did you choose this company? I liked that Travelport is the world's only true Travel Commerce Platform, focused on providing distribution, technology, payment and other solutions for the global travel and tourism industry and their platform enables travel providers, travel agencies, corporations and developers to search, share, buy and sell travel.

### Company 4

- ○ Company name: Booz Hallen Hamilton
- ○ Why did you choose this company? I liked that Booz Allen Hamilton has been at the forefront of strategy and technology for more than 100 years and that it partners with public and private sector clients to solve their most difficult challenges through a combination of consulting, analytics, mission operations, technology, systems delivery, cybersecurity, engineering and innovation expertise.

### Company 5

- ○ Company name: Capegemini

- ○ Why did you choose this company? I liked that the company has more than 190,000 people, is present in over 40 countries and celebrated its 50th Anniversary year in 2017 and is a global leader in consulting, technology and outsourcing services

## 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:

# Deploying Deep Learning Models to Production

- ● Deploying Deep Learning Models to Production hosted by Chris Benson (Atlanta Deep Learning Meetup)
- ● Partner Event – DataSciCin.Tech Conference hosted by Amelia Martin (Data Science of ATL)

- ● Executive Perceptions of Machine Learning hosted by Amelia Martin (Data Science of ATL)
- ●

Local data scientist from a company on your hit list:

- ● https://www.linkedin.com/in/monica-reddy/

First or second degree connection in the industry:

- ● https://www.linkedin.com/in/phuonghoangmath/

## Section 5: Write your own story

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

Describe your ideal job to an industry professional

A a Senior Data Scientist, I am part of a cross-functional team that engages directly in solving real-world data science problems in a wide array of industries with our clients around the globe.  I am using advanced techniques, such as optimization, data mining, statistical analysis and mathematical modeling, to develop solutions that help the company I am working for  operate more efficiently and cost-effectively. During the course of my work I engage with our business partners to identify data-driven

opportunities and develop corresponding predictive/prescriptive models to solve business problems.

I prepare technical reports, presentations, and status briefings to communicate status and results of analysis to other business partners within the company. I also research current trends in the industry and utilizes up-to-date technology and analytical skills to support my current assigned project. I also mentor and develop the technical and business skills of other Data Scientists in our comapny.

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

As  a Senior Data Scientist, I am an experienced practitioner in the areas of mathematics, statistics and data mining which is the process of discovering patterns in large data sets. I am responsible for performing large-scale statistical analysis for identifying opportunities, evaluating existing gaps, and proposing scalable solutions for our clients around the globe in a wide variety of industries. I communicate with product management, IT and other business teams in our company on problem definition and writing requirement documents for efficient model building and deployment.

I am also responsible for collecting, organizing, analyzing, and then presenting data and results visually in ways that support understanding of the extracted meaning and insights gleaned from data. Most of the time I am expected to operate with minimal supervision and mentor other data scientists to complete analytical tasks and productionalize model-driven solutions.

## Draft your aspirational professional summary

A a Senior Data Scientist, I am part of a cross-functional team that engages directly in solving real-world data science problems in a wide array of industries. I am responsible for performing large-scale statistical analysis for identifying opportunities, evaluating existing gaps, and proposing scalable solutions for our clients around the globe. I alsp prepare technical reports, presentations, and status briefings to communicate status and results of analysis to other business partners within the company while helping to mentor and develop the technical and business skills of other Data Scientists in our comapny.