



Languages & Aptitudes: Python, SQL, Tableau, MS Office Suite, Workday Reporting, English, Korean

Technical Skills: Regression Analysis, Machine Learning, Natural Language Processing, Data Scraping, Cleaning & Visualization, Graphic Design, Digital Illustration

Work Experience

Data Analyst, Jackson National Life | 11/2018 – Present

- Analyzed internal compensation and employee data and ran corollary analysis. The results assisted consultants in reinforcing pay equity and consistency for associate and executive level positions.
- Ran text analysis using python for over 2000 job descriptions, creating word clouds and tables based on commonly used words and bigrams. This was used to assist the e-Learning department in creating department-specific and company-wide training modules.
- Calculated risk and future impact of implementing a new bonus structure to the company. By scraping historical bonus data and company performance modifiers, I made dynamic tables and visualizations to show to executives the potential costs and savings to the company for changing bonus structures in Tableau.
- Implemented a new merit and bonus process through Workday, creating calculated fields and custom reports for the Compensation team and company executives as well as running validations and audits on entered awards. This made the annual bonus process secure and simpler.

Projects

- **Exploratory Data Analysis (EDA):** Created charts and pivot tables to show differences in data analyst and data scientist average salaries by category
- **Machine Learning:** Determined if a user-submitted mango image contained a ripe mango or not using a model trained with 1500+ mangos
- **Dataframes and Styling:** Converted the current time into a light-up word clock on a 12x12 grid of letters.
- **Natural Language Processing:** Parsed the skills and responsibilities from job descriptions and displayed them on a word cloud based on frequency

Packages: tensorflow, cv2, nltk, wordcloud, matplotlib, seaborn, pandas

Education

Michigan State University | 08/2013 – 08/2018

- **Bachelor of Arts, Major** – Pre-Medicine
- **Minor** – Physics

Relevant Classes:

- **Computer Science:** Fundamentals of Information Technology, Computing Concepts/Competencies, Introduction to Programming
- **Math:** Statistics, Calculus 1-4, Multivariable Calculus, Differential Equations
- **Physics:** Quantum Physics, Electricity and Magnetism, Classical Mechanics, Thermodynamics and Modern Physics
- **Personal:** Udemy (The Complete SQL Bootcamp by Jose Portilla, Python for Data Science and Machine Learning Bootcamp by Jose Portilla)