Victor Chen

vichen@gmail.com
LinkedIn: https://www.linkedin.com/in/victorlchen
GitHub: https://github.com/vichen1126

Education:

University of Massachusetts Amherst, Amherst, MA **May 2023**

Bachelor of Science in Informatics: Concentration in Data Science, Minor in Computer Science - 3.75 GPA

- Received 2019 Stanley Z. Koplik scholarship: 3.92 Major GPA - Dean's List (Spring 2020 - Fall 2022)
- Relevant coursework: "Programming with Data Structures", "Predictive Analytics with Python", "Business Intelligence and Analytics", "Programming Methodology", "Introduction to Data Science", "Telling Stories with Data: Statistics, Modeling, and Visualization", "Practice and Applications of Data Management", "Computer Systems Principles", "Web Programming", "Data Mining in Business", "Introduction to Web Design (Advanced Software)"

Skills:

Programming:

- Python (Pandas, Matplotlib, Seaborn, PySpark, boto3), R (Tidyverse), SQL
- JavaScript (Express.js, MongoDB, PouchDB), HTML5, CSS (Bootstrap), C, Java
- Visual Studio Code, Jupyter Notebook, RStudio, Microsoft Access, Databricks, Snowflake, PostgreSQL

Tools:

- GitHub, AWS S3, MicroStrategy, Tableau, Microsoft Excel (XLMiner), Linux Command Line, Postman

Experience:

Business Insights & Analytics Leadership Development Program Intern **Jun 2022 - Aug 2022**

Travelers

- Assisted Business Insurance Cloud Administration team as a Data Engineering intern
- Provided processing, loading, and analysis of AWS support requests received by the team for summer intern project
- Hands-on experience with AWS S3, Databricks (boto3, PySpark), Snowflake, and MicroStrategy
- Experience presenting findings to peers and senior leaders using various platforms (Dashboarding, PowerPoint, etc.)
- Received training in various business and data related topics and technologies (Excel, GitHub, etc.)
- Exposure to Agile team structure and function, Rally storyboards, Confluence, and general AWS Cloud Computing tools and concepts (IAM Roles & Policies, Secrets Manager, etc.)

Projects:

Exploring the Relationship Between Education, Marital Status, and Salary

Introduction to Data Science, University of Massachusetts Amherst

https://github.com/vichen1126/info248-salary-education-marital

- Explored effect of education level and marital status on whether a person's salary was greater than $50k USD annually (1994, worldwide) using RStudio data science functions and libraries
- Processed and subset dataset of 15 columns and over 32k observations using tidyverse and dplyr libraries, created various visualizations of cleaned data with ggplot2 library
- Logistic regression with base R glm() function showed that higher education levels and forms of civil marriage were correlated with higher salary, ROC curve (ROCR library) proved 85.9% accuracy of model with a 16.2% misclassification rate
- Decision tree model (rpart, tree, randomForest, and gbm libraries) predicted majority people to make <= $50k annually (misclassification rate of 17.9%)

Business Insurance Cloud Admin Intern Project: AWS Support Request Data

Business Insights & Analytics Leadership Development Program Intern, Travelers

- Processed, loaded, and analyzed data on AWS support requests received by BI Cloud Admin team
- Data set gathered as CSV from Sharepoint list using Excel and uploaded to AWS S3 bucket within BI space
- Processed and cleaned data in Databricks Python Notebook primarily using boto3 and PySpark libraries, loaded clean data into Snowflake table and back to S3 bucket for querying and access
- Created MicroStrategy dossier dashboard of clean data to discover insights that allow for improved team efficiency
- Presented process and findings to team members and peers using PowerPoint and aforementioned dashboard