Zhaoying Meng(Ellen)

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Portfolio: https://ellenmeng.netlify.app | GitHub: https://github.com/EllenMeng0810

SUMMARY
Analytically minded self-starter with 2+ years of experience in data transformation, data manipulation, data visualization and data modeling. Proficient in SQL, Python, Tableau and SAS. Seeking a position as an entry level data scientist.

EDUCATION
FRANKLIN UNIVERSITY | Master's in Computer Science **|** Columbus, OH | 01/2020 - 05/2022 | **GPA: 3.96**
- ***Coursework:** Introduction to Analytics, Data Visualization and Reporting, Issues of Database Management, Applied Machine Learning, Analysis of Algorithms, Object-Oriented Software Design, Verification and Testing, Distributed Systems, Graduate Capstone*

CAPITAL NORMAL UNIVERSITY | B.A: Science & Tech of Artificial Intelligence | Beijing, China | 07/2007 - 05/2011

DATA SCIENCE PROJECTS
Credit Card Default Prediction
- Explored and wrangled client demographic data in Python to identify variables (gender, education, marital status, age, credit limit, history of past payment, amount of bill statement) that correlated with credit card defaults.
- Implemented different machine learning algorithms like Logistic Regression, KNN classifier, Decision Tree, Random Forest for the anomaly detection. Improved the model accuracy to 84% (Random Forest).

STEM Career Data Exploration
- Aggregated and prepped three independent sources from Kaggle into MySQL database.
- Built five interactive dashboards in Tableau to present best location, best company, best salary by title in STEM Career. Helped 70% students to make a decision on their job location and industry.

Dolphin Health Risks Diagnosis
- Modeled the impact of social activity, IQ, and intimacy variables on dolphin life expectancy using multilinear regression models in SAS. Achieved 89% R-square and smaller variance.
- Saved research dollars and time by helping scientists reduce their experimental costs of performing physical examinations of dolphins in the wild by using GPS data to identify dolphins with higher health risks.

PROFESSIONAL EXPERIENCE
FRANKLIN UNIVERSITY
Graduate Assistant (Data & Reporting) | Columbus, OH | 03/2021 - 05/2022
- Initiated Web automation project in Python to scrape instructor engagement data (Grading, Attendance, Email responses, Faculty Development Courses). Reduced manual data gathering error by 6% and 30h work time.
- Manipulated and analyzed data in Tableau to identify the factors of excellent instructors in order to improve Faculty Development and Instructional Coaching programs.
- Coordinated DataFest, an undergraduate data science competition: provided administrative support, gathered academic data, and mentored a team by providing instruction on data wrangling, visualization, and statistics.
- Checked and maintained data accuracy of the Interfolio faculty credentialing database and conducted quality audits.

FUCHENGMEN ELEMENTARY SCHOOL
Mathematics Teacher | Beijing, China | 07/2011 - 06/2015
- Monitored students' progress in an Excel for three years, redeveloped curriculum based on students' assessments data and built visualization for school and parents to present the growth and achievement.
- Taught two forty-student classes: 100% of students passed the exam and 80% received an "Excellent" rating.

DATA SCIENCE SKILLS
Python (Pandas, Numpy, Matplotlib, Seaborn, and Sklearn) | Microsoft Excel (VLOOKUP, Pivot Tables and Conditional Formatting) | Data Analytics and Data Visualization (SQL-MySQL, SAS, Tableau) | Automation & Software Development: C++, Java (Visual Studio, Eclipse, Netbeans, IntelliJ IDEA)
LICENSES/CERTIFICATIONS :Data and Machine Learning Engineer