

Zhaoying Meng | DATA SCIENCE CANDIDATE

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

SELECTED DATA SCIENCE PROJECTS

Dolphin Health Risks Diagnosis Project (SAS):

- Modeled the impact of social activity, IQ, & intimacy variables on dolphin life expectancy using scatter plots, linear, quadratic & cubic regression models, multilinear regression models.
- Identified multivariate linear regression model with best R-square & smaller variance.
- Proved that GPS-gathered data (which is cheaper to gather) reliably identifies dolphins with higher health risks.

Credit Card Defaults Prediction Project (Python):

- Cleaned & analyzed 30K rows of credit data to identify variables that correlated with credit card defaults.
- Ran Logistic Regression, KNN classifier, Decision Tree, Random Forest algorithms and evaluated models for accuracy and F1-Score.

STEM Salary Data Exploration Project (Tableau):

- Created dashboards and presented results summarizing 62K rows of STEM salary and demographic data.
- Used bar charts, histograms, pie charts, and maps to find that years of experience, location, and company better predict salary than gender, race, or education level.

EDUCATION

FRANKLIN UNIVERSITY | Master's in Computer Science | Columbus, OH | 01/2020 - 05/2022 (expected) | **GPA: 3.96**

- **Coursework:** *Fundamentals of Database Systems, Object-Oriented Software Design, Applied Machine Learning*

COLUMBUS STATE COMMUNITY COLLEGE | Courses in Economics | Columbus, OH | 07/2019 - 12/2019

HOUSTON COMMUNITY COLLEGE | Courses in Linear Algebra & Computer Science | Houston, TX | 1/2017 - 05/2019

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

PROFESSIONAL EXPERIENCES

FRANKLIN UNIVERSITY

Faculty Services Assistant (Data & Reporting) | Columbus, OH | 03/2021 - Present

- Wrote Python automation script to eliminate 30 hrs of manual data gathering. The script automatically scrapes & builds a weekly report summarizing professors' course work. Report was shared with global university partners.
- Manipulate and analyze data to identify the factors of excellent professors to improve Faculty Development and Instructional Coaching programs.
- Improved training for future colleagues by recording all steps for compiling reports & providing administrative support.
- Check and maintain data accuracy of Interfolio databases and conduct quality audits.

FUCHENGMEN OUTER NO.1 ELEMENTARY SCHOOL

Mathematics Teacher | Beijing, China | 07/2011 - 06/2015

- Taught 2 classes (80 students total) per year.
- Empowered 100% of students to pass the exam and 80% to receive an "Excellent" rating.
- Self-recorded class to identify opportunities to improve: slowed speech and revamped course materials into games or competitions and around carnival and zoo themes to drive better student engagement.

EGENSOURCE TECHNOLOGY CO., LTD

Software Engineer Intern | Beijing, China | 07/2010 - 01/2011

- QA tested new features: wrote test cases and ran manual testing processes.
- Reported and tracked bugs in Mantis Bug Tracker: diagnosed software issues and escalated issues to developers and project manager.
- Organized the departmental meeting schedule, preparations and recorded the meeting contents.

DATA SCIENCE & COMPUTER SCIENCE SKILLS

Data Analytics and Data Visualization (SAS, Tableau, Excel, SQL) | Automation & Software Development: C++, Java (Visual Studio, Eclipse, Netbeans, IntelliJ IDEA) | Python (Pandas, Numpy, Matplotlib, Seaborn, and Sklearn) | Data Manipulation, Matrix Computing, Training Model, Extreme Programming