Dongmin Wu

Portfolio
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PROFESSIONAL SUMMARY

- **Analytical Problem-Solver:** Strong foundation in statistical analysis, machine learning, and data science, with expertise in supervised learning (regression and classification), predictive modeling, and data visualization.
- **Technical Proficiency:** Skilled in programming languages including Python, R, C++, and SQL, with hands-on experience in building data-driven solutions to inform business decisions.
- **Collaboration & Communication:** Proven ability to translate complex technical findings into actionable insights, with experience in mentoring, teaching, and working in collaborative environments to solve real-world problems.

SKILLS

- **Programming Languages:** Python, Java(beginner) R, C, C++
- **Data Analysis Tools:** Jupyter Notebook, Microsoft Excel, SQL, RStudio
- **Data Visualization:** ggplot2, Matplotlib, Tableau
- **Machine Learning:** Supervised Learning (Regression, Classification), Unsupervised Learning, Model Evaluation (Cross-validation, Accuracy, Precision, Recall)
- **Statistical Analysis:** Descriptive Statistics, Hypothesis Testing, Confidence Intervals, ANOVA, Time Series Analysis
- **Data Manipulation:** Pandas, NumPy, Data Cleaning, Feature Engineering
- **Database Management:** SQL, Relational Databases, Data Querying
- **Software Development:** Version Control (Git), Code Debugging, Modular Programming
- **Data Science Methodology:** Data Preprocessing, Data Exploration, Exploratory Data Analysis (EDA), Statistical Inference
- **Business Intelligence:** Creating Dashboards, Presenting Data Insights to Non-Technical Stakeholders
- **Project Management:** Time Management, Task Prioritization, Team Collaboration
- **Communication:** Presentation Skills, Technical Writing, Data Storytelling
- **Languages:** Fluent in Mandarin, English, and Japanese
- **Problem-Solving:** Critical Thinking, Logical Reasoning, Algorithmic Thinking
- **Soft Skills:** Adaptability, Leadership, Teamwork

EDUCATION

University of California, Davis **09/2021 - 06/2025**
Bachelor of Science in Statistics and Mathematics (Double Major)
Minor in Computer Science

Relevant Coursework:
-**Statistics**: Regression Analysis, Applied Time Series Analysis, Analysis of Variance, Probability Theory
-**Mathematics**: Real Analysis, Advanced Linear Algebra, Modern Algebra, Optimization
-**Computer Science**: Algorithm Design and Analysis, Data Structures, Machine Learning, Scientific Computation

CERTIFICATIONS

Supervised Machine Learning: Regression and Classification (DeepLearning.AI)	**11/2024**
SQL Programming (LinkedIn)	**11/2024**
Google Data Analytics Certificate (Google)	**10/2024**
A Day In The Life of a Data Scientist (LinkedIn)	**08/2024**
The Non-Technical Skills of Effective Data Scientists(LinkedIn)	**08/2024**

WORK EXPERIENCE

UC Davis Student Housing & Dining Services **05/2023 - 09/2023**
Orientation Leader

Responsibilities:

- Mentored new students through academic and social transitions.
- Led campus tours, facilitated resource sessions, and fostered community integration.

UC Davis Mathematics Department **09/2022 - 12/2022**
Learning Assistant – Calculus for Biology & Medicine

Responsibilities:

- Guided 30 students in course material discussions, improving comprehension of calculus concepts.

UC Davis Coffee House (ASUCD) **03/2022 - 09/2023**
Kitchen Employee

Responsibilities:

- Prepared menu items and streamlined food preparation processes, demonstrating teamwork and adaptability.

PROJECTS

Southern California Housing Market Forecast:
- Applied ARMA models to forecast housing prices, identifying market trends and variability.

Sparrow Weight & Nest Size Analysis:
- Conducted ANOVA and developed hypothesis tests with confidence intervals to study ecological impacts.

Tech Worker Salary and Helicopter Calls Study:
- Performed ANOVA to investigate correlations between tech salaries and helicopter frequencies.

Education and Income Correlation Study:
- Utilized linear regression to assess the relationship between bachelor's degree prevalence and U.S. income.

Global Mortality Insights:
- Analyzed trends in cardiovascular diseases and HIV mortality rates using global datasets.