

MAXWELL SMITH

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EDUCATION

THE GEORGE WASHINGTON UNIVERSITY, School of Business
Master of Science, Business Analytics

Washington, DC
Summer 2025

Course highlights:

Data Management: Implemented Python code using Jupyter Notebooks in Amazon Web Service to conduct data management tasks including data base creation, data insertion and table production. Used this platform to then create data visualizations and analyze data.

Decision Models: Created decision trees to compute expected values. Conducted Monte Carlo simulations to estimate project duration and cost.

Probability Models: Learned the distributional basis for various probability calculations to ensure optimal model selection for machine learning.

Spring 2025: Participating in Business Analytics Practicum

Spring/Summer 2025 Coursework to include Machine Learning, Time Series Forecasting

UNIVERSITY OF TENNESSEE - KNOXVILLE, Haslam College of Business
Bachelor of Science, Business Administration | Major: Business Analytics | Minor: Supply Chain

Knoxville, TN
December 2023

- Coursework included Data Mining, Statistical Methods and Regression Modeling
- Completed a Capstone for Business Analytics emphasizing communication of analytics results across a multi-disciplinary corporate team through presentations, executive summaries and Tableau dashboards.

PROJECTS

ONLINE PORTFOLIO: maxdsmith.com

Knoxville, TN

Exploring Drivers of US County GDP

- Conducted regression analysis to identify key economic and business drivers of U.S. Gross Domestic Product (GDP) at the county level, uncovering significant regional trends.
- Developed and utilized a choropleth map in R to visually represent GDP quantile data across U.S. counties, enhancing data interpretation and decision-making.
- Applied varying complexity models using the caret package, optimizing performance through cross-validation and rigorous testing on training and test datasets.
- Generated a variable importance plot and correlation matrix, revealing the impact of top variables on GDP and informing strategic economic insights.

German Credit Score Data

- Conducted classification analysis to accurately predict customer creditworthiness using factors like checking account status and loan purpose, enhancing predictive accuracy.
- Evaluated models using performance metrics such as area under the ROC curve, Sensitivity, and Positive Predictive Value, optimizing model selection.
- Analyzed model probability cut-off points to determine optimal Sensitivity and Positive Predictive Value, refining classification accuracy.

EXPERIENCE

TAZIKI'S, CHIPOTLE, DONNA MARE

Knoxville, TN / Miami, FL

Front-Line Worker

December 2020 - August 2024

- Coordinated with colleagues to optimize workflow and enhance operational efficiency, while effectively training new employees to enhance productivity
- Engaged with customers to ensure their needs were fully met, resulting in improved customer satisfaction.
- Prioritized tasks and managed time efficiently to meet deadlines and complete assignments promptly.

ADDITIONAL INFORMATION

Technical Skills: Python, Spark, Linux, SQL, R, Tableau, Microsoft Office, Shiny Apps