

MAXWELL SMITH

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EDUCATION

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

Washington, DC
June 2025

Course highlights:

Practical AI: Gained hands-on experience with AI models for text and image data using prompt engineering for generative AI tasks and working with Retrieval-Augmented Generation (RAG) frameworks.

Data Management (Large Datasets): Implemented Python code using Jupyter Notebooks in Amazon Web Service and VS Code to conduct data management tasks including data base creation, data insertion and table production. These platforms were also used to visualize and analyze data.

Machine Learning: Developed models and compared performances. Prepared data for model testing and communicate results effectively.

Time Series Forecasting: Developed various time-series models to predict unseen/future events using trend(s) and seasonality.

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

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.
- 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.

INTERNSHIP

BUSINESS MANAGEMENT ASSOCIATES | ALEXANDRIA GOVERNMENT CONSULTING
Business Operations Intern

Alexandria, VA
Summer 2025

- Coordinated daily with project managers, analysts, and HR to ensure processes and reporting are streamlined and data informed.
- Curated and structured datasets to support targeted marketing campaigns and enhance the internal knowledge management system by systematically organizing documents based on role-based access.
- Analyzed employee utilization and efficiency across projects to identify signs of overextension or underperformance.
- Conducted data trend analysis and provided operational insights and recommendations using Excel.

ADDITIONAL INFORMATION

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

Experience: About four years (Dec. 2020 – Aug. 2024) of both full-time and part-time restaurant experience in Knoxville, TN and Miami, FL working at Chipotle, Tazikis, and Donna Mare as a front-line worker.