

# Ana Lytics

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## EDUCATION

Appalachian State University, Boone, NC

**Master of Science in Applied Data Analytics**, GPA: 3.9

Spring 20xx

**Master of Arts in Mathematics**, GPA: 4.0

Spring 20xx

**Bachelor of Science in Actuarial Science**, GPA: 3.3

Spring 20xx

## DATA AND STATISTICAL ANALYSIS

**R**: generate graphics, lasso regression, ridge regression, elastic-net regression, forward and backward stepwise regression, average forecasting method, naive forecasting method, seasonal naive forecasting method, drift method, t-test

- Multiple and Logistic Regression Certification | Inference for Linear Regression Certification February 20xx
- Applied Data Science with R - Level 2 IBM Badge | Correlation and Regression Certification January 20xx
- Forecasting Using R Certification January 20xx

**SAS**: clean data, adjust variables, univariate and bivariate exploring, regression, interpret outputs, predictive analytics

**Matlab**: create matrices, basic linear and numerical algebra concepts, build graphs for descriptive analysis

**Python**: created code for the following numerical linear algebra concepts: forward and backward substitution, single value decomposition, inverse power method, eigenvalues of a circular matrix, gauss seidel method, and Jordan Form decomposition

## TEACHING AND RESEARCH

Appalachian State University, Boone, NC

**Instructor, Algebra with Applications**

Spring 20xx-Spring 20xx

- Designed lesson plans for linear/exponential/power functions, trigonometry, measurement conversions, and finance
- Deployed unique teaching methods and techniques to ensure a solid understanding of concepts introduced and taught
- Coordinated with instructors to create weekly assignments on an online platform to ensure students grasped material
- Scheduled office hours to provide students academic support and when necessary offered tutoring outside of class

**Applied Data Analytics Project** - *'Guilford County Inspections and Tax Data'*

Fall 20xx-Spring 20xx

- Consolidated three datasets into a single source by implementing vlookup to reference and organize records
- Forecasted inspection failures based on given conditions by building predictive models using forward/backward selection

**Teaching Assistant, Algebra with Applications**

Fall 20xx-Fall 20xx

- Outlined lesson plans with instructor in order to coordinate instructional strategies that maximize class time
- Facilitated learning of functions and logarithms to guarantee a firm understanding of course material

**Directed Research** - *'Pick a Sport, Any Sport'*

January 20xx-May 20xx

- Researched a variety of sports in order to select three sports on which to conduct analysis and create modules that would be used in an undergraduate course as an outline of how to conduct sports analytics
- Assembled data for select NFL football quarterbacks and select NBA players to create modules for sports analytics course
- Compiled code in R that analyzed variables and produced linear, multi, lasso, ridge, and elastic-net regression models

**Research Assistant**

May 20xx-July 20xx

- Aggregated STEM resources located in Western North Carolina to help assemble a resource file to share with elementary, middle, and high schools in these areas

## LEADERSHIP AND INVOLVEMENT

Executive Impact Club, ASU, Boone, NC

**Treasurer**

Fall 20xx-Spring 20xx

- Managed club accounts to ensure budgets were created and membership dues were paid in support of club operations
- Reviewed financial records periodically in order to consult with members, other officers and administration
- Prepared detailed and transparent file that documented all club transactions and ensured cost-effective solutions