**ALEXANDRA AKAAKAR**

**R Developer || Statistical Programmer**

**GRAND RAPIDS ,MI 49503 || 618-303-1928 || ALEXANDRAAKAAKAR@GMAIL.COM**

Statistician and R programmer. Experience in data wrangling and management processing using tidyverse, excel, Stata and SQL. Excellent communicator, team player and creative problem solver. Adept at the Application of a wide variety of analytical methods to develop insights and solutions to key questions. Interested in Information Systems, Econometrics and Community Health. Able to design solutions to problems that come with or without a dataset attached.

**EXPERIENCE**

**Data Analyst,** Community Data and Research Lab**,** Dorothy A Johnson Centre for Philanthropy at Grand Valley State University. January 4th 2022 – Present.

* Reviewing of pre-project and methodology documentation for data analysis, dashboard maintenance and statistical analysis planning.
* Statistical Programming to evaluate intervention outcomes. Creating analysis datasets, validating existing statistical analysis and providing accurate documentation.
* Interpreting data, analyzing results, and providing insights to determine operational impact, trends, and opportunities. Supporting analyses involve multisource data.
* Providing deliverables on data management and data cleaning projects. Processing data in preparation for reporting.
* Designing, coding, configuring, testing, and debugging programs for dashboard Indicator development and maintenance. Identifying and defining data quality improvements.
* Integrating data from multiple sources to produce data elements and interpreting data for ad hoc analysis.
* Developing and modifying existing analysis scripts. Converting from SQL to R code bases. Learning new software as applicable.

**Attended Building R packages with devtools and usethis RStudio, October 2021**

**Attended Advance R Markdown Automation Seminar,** August 2021

**Customer Segmentation And Data Analysis Project,** May 2021

**Attended Sentiment Analysis Workshop Held by JMP and SAS,** August 2021

**Working through Shiny App development in R,** January 2021 – Present

**Data Resource Analyst**, Department of OBGYN at Michigan State University College of Human Medicine, April 2020-October 2020.

* Data resource analyst for MSU & Strong Beginnings Match Project. Research Question: How do maternal and infant health risk factors differ across Medicaid insured women, MIHP participants and Strong Beginning participants? Mean Difference Estimation Analysis. Population Statistics. Descriptive statistics.
* Responsible for Statistical analysis of primary data. (Scripting to process ICD9/10 codes)
* Research Data management, Variable construction, and data reporting in SAS and R.
* Responsible for data accuracy, data reviews and data quality assessment of maternal/infant healthcare data.
* Consistently commended by supervisors on the quality of project-related deliverables involving electronic health records, administrative claims, and other complex databases. Created Impactful health delivery reports in SAS and Adobe. Monthly data pulls, cleaning, analyses, enrollment, and retention reporting.
* Collaborate with partners and healthcare providers to develop reporting analytics for research, improvement of care delivery and data support.

***Research Analyst****,* May 2019 – March 2020

* **Bayer-Monsanto**: Analyzed sugar yield data using the *Desplot* R package. Derived irrigation and plot recommendations which increased yield and conserved water.
* Performed Trend Analysis on complex data sets
* Created visualisations for reports based on industry and client requirements
* **CUNA**: Conducted Business Analysis of Sales Report. Implemented code to turn sales reports into a human-readable format
* Built linear model to estimate the effect of rainfall amount on commodity price data

***Agribusiness Economics Graduate Assistant*,** Southern Illinois University, Carbondale, Illinois, Jan 2018-May 2019

* Used quantitative data to understand and identify areas where students needed improvement
* Achieved and sustained improved grades through one-on-one student coaching
* Taught students statistics skills using logic and reasoning
* Assisted in developing lectures, homework, quizzes, and exams for the course.
* Created interactive dash to maintain accurate records of student information

***Learning Assistant,* Southern Illinois University**, Carbondale, Illinois, January 2015 – May 2017

* Accomplished significant grade improvements in students using effective study techniques
* Initiated and participated in data collection to improve the efficiency of the Center for Learning Support Services

***Laboratory Coordinator****,* Southern Illinois University, Carbondale, Illinois, January 2014 – January 2015.

* Coordinated a 200-level Chemistry Laboratory
* Supervised Experiment set-up and tear-down
* One-on-one coaching in computational chemistry

**SKILLS & ABILITIES**

* Statistical programming
* Data Analysis/ Visualization
* Quantitative Analysis
* Research Consultation/study design
* Hypothesis Testing
* Business Intelligence
* Data Cleaning/Exploration
* R Markdown/Shiny

**EDUCATION**

***HarvardX Data Science Professional* - Audited**

***Master of Science in Agribusiness Economics****, May 2019, GPA 3.58*

Southern Illinois University, Carbondale, Illinois

Research work: *Food Insecurity in West Africa*

* Data Analysis and Modeling: Collected primary and secondary data. Provided modelling and analyses of structured and unstructured data to study food delivery systems.
* Visualized complex economic data with Excel and R. Built statistical models with SPSS and EViews
* Completed a realistic framework for improving urban and rural food security by investing in smallholder technology.

Relevant Coursework: Econometrics, Entrepreneurship, Management, Regional Analysis, and Research.

***Bachelor of Science in Microbiology****, May 2017, GPA 3.4*

*Minors: Chemistry and Psychology*

Southern Illinois University, Carbondale, Illinois

Relevant Coursework: Immunology, Biochemistry, Antimicrobial packaging, the microbiology of foods and industrial products (Wine, yoghurt, indigo dye).

Final project titles:

Sexually transmitted diseases in the female reproductive tract: HIV and Gonorrhea.

Antimicrobial food packaging improving shelflife

**LEADERSHIP**

* Brand and Business Owner at FromLexiiWithLove. LLC.
* Co-ordinating Catering and logistics for educational and social events (Food Fairs, Seminars, Outdoor Festivals, Job fairs). Worked with the boys and girls club, FoodWorks and Feeding America.
* Lead Volunteer groups for Farm days and Farm crawls with local non-profits.
* Spearheaded Food Drives and COVID-19 information Awareness
* Member of R-Ladies East Lansing