

Mackenzie Bogiages

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EDUCATION

University of North Carolina at Chapel Hill

Bachelor of Science in Statistics and Analytics

Bachelor of Arts in Economics

Minor in Hispanic Studies

May 2018

Universidad Complutense de Madrid

Spring 2017

Awards

Heritage Greece Scholar

Buckley Public Service Scholar

Carolina Research Scholar

American College of Greece

University of North Carolina

University of North Carolina

RELEVANT EXPERIENCE

IBM, Cambridge, MA

Data Scientist | Senior Consultant

April 2020 – present

- Configured an enterprise level initiative for an end-to-end solution to automate the prior-authorization process by addressing rules and criteria pertaining to the relevant procedures to determine whether the criteria for approval were met and to generate standardized outputs with the necessary decisions and evidence, broken down to the sub-rule level using Python and AWS services. The initial solution increased speed by 2,600x, increased accuracy to 91%, and increased daily throughput by 329x.
- Led a team of ten data scientists as we scaled our solution across business units and procedure groups while ensuring we continued to deliver quality and clinically accurate code. Facilitated the communications between our technical team and the client's clinical team
- Worked with senior leadership and partners to develop our solution and the campaign as a whole including commercialization of the product, presentations and sales work at various clients, and creating new use cases for the platform

Cognitive and Analytics Consultant

October 2018 – March 2020

- Helped clients improve health outcomes through the application of emerging technologies such as AI and intelligent automation.
- As a data scientist, executed data explorations, provided rigorous analyses, built forecasting models, developed feature vectors, and created toy models to explain model logic in an easy-to-understand format, and more.
- As a business analyst, assembled executive content, documented business rules and requirements, developed project documentation and user guides, created visuals for descriptive analyses, and more.
- Worked with multidisciplinary teams to develop a demand forecasting platform for biologics and emerging biosimilars reaching 94% accuracy by using 30+ analytical features across 4,000+ accounts.
- Utilized Watson products to configure a cognitive evidence gathering solution for medical device regulation that expedites client classification, summary, and evidence gathering processes required by different governing authorities.
- Worked independently to derive insights around international tender processes for 5 international regions of a multinational pharmaceutical company.

Sequent Health Physician Partners, Atlanta, GA

Data and Analytics Intern

Summer 2017

- Worked in a dynamic medical environment with a multidisciplinary team and exposure to many different patient populations.
- Created clinical data models to identify at-risk patients; collaborated with clinical staff to initiate prevention measures.
- Analyzed membership data to identify trends and fashioned them in an executive presentation for the board of directors.
- Collaborated with marketing team to refresh website and to cater it to the appropriate audiences and increase engagements.
- Independently built management dashboards to support best practices while simultaneously managing other projects.

SKILLS

- Fluent in conversational and written Spanish, currently improving modern Greek
- Proficient in Python, R, Stata, MatLab, SAS, GAMS, Octave, and GitHub
- Data Analytics, Public Speaking, Critical Thinking, Problem Solving

CERTIFICATIONS

Data Science Professional

Certificación Profesional: Ciencia de Datos

Cognitive Services Data Scientist

Coursera

Tecnológico de Monterrey

IBM

PUBLICATIONS

Bogiages, Mackenzie (2017) "Examining the Impact of Education on Diabetes Rates," *Undergraduate Economic Review*: Vol. 14 :

Iss. 1 , Article 12. <https://digitalcommons.iwu.edu/uer/vol14/iss1/12>