Mackenzie Bogiages

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WORK EXPERIENCE

IBM   Cambridge, MA
Data Scientist | Senior Consultant   April 2020 – Present
- Configured an end-to-end solution to automate the pre-authorization process by determining whether the criteria for approval were met and generating standardized outputs with decisions and supporting evidence using Python and AWS. 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 five different surgery types while ensuring we continued to deliver quality and clinically accurate code by achieving 90% accuracy on historical and production cases. Facilitated the communications between our technical team and the client's clinical team.
- Worked with senior leadership and partners to develop our solution into a reusable offering and create go-to-market and sales materials for various use cases and clients across different industries.

Cognitive and Analytics Consultant   October 2018 – March 2020
- Executed data explorations, provided rigorous analyses, built forecasting models, developed feature vectors, and created easy-to-understand models, and more.
- 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 that reached 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.
- Worked independently to derive insights around international tender processes for 5 major 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 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, CERTIFICATIONS, AND PUBLICATIONS

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 – Coursera
- Certificación Profesional: Ciencia de Datos – Tecnológico de Monterrey
- Cognitive Services Data Scientist – 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

EDUCATION AND HONORS

University of North Carolina at Chapel Hill –   Chapel Hill, NC
B.S. Statistics & Analytics, B.A. Economics, minor Hispanic Studies   May 2018
          Universidad Complutense de Madrid **–** *Exchange Program*
Honors: Carolina Research Scholar, Buckley Public Service Scholar, Heritage Greece Scholar