

# Ghislene Adjaoute, MSBA, MSW

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## PROFESSIONAL SUMMARY:

Data Science Manager with over 7 years of work experience in healthcare and life sciences industries. Advanced machine learning modeling, statistical and visualization skills with expertise in life sciences and real world data.

## EDUCATION

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**Master of Business Analytics (MSBA)**, UCSD Rady School of Management, San Diego 06/2020

**Master of Social Welfare (MSW)**, UCLA Luskin School of Public Affairs, Los Angeles 06/2018  
▪ Clinical and Psychopharmacology focus

**Bachelor of Science (B.S.) in Biology**, California Polytechnic State University, San Luis Obispo 12/2013  
▪ Marine Biology and Fisheries Concentration, Psychology & French Minors

## SKILLS

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**Domain:** Machine learning, Generative AI, NLP, GANs, VAEs, statistics, data analysis, graph theory, recommendation systems, API Integration, clinical EMR records, medical devices, real world data.

**Languages:** Python (TensorFlow, PyTorch, Scikit-Learn, Keras, Numpy, pandas), R, SQL, HTML

**Analytics tools:** AWS (S3, EC2, Bedrock), Microsoft (SQL server, Copilot), Git, Hadoop, Snowflake, Shiny, Streamlit, GCP, BigQuery, KNIME.

**Writing:** grant-writing, FDA regulatory submissions, poster presentations, peer-reviewed publications, data storytelling.

**Databases:** EHRs, Claims Data, Device Data, Social Media Data, Clinical Trials, PubMed, CMS, BigQuery, Mayo Clinic Discover Platform, Premier, Komodo, ACHQC, BD HealthSight, Definitive Healthcare, ChemBI, PubChem.

## RELEVANT EXPERIENCE

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**Manager, Data Science, Real World Evidence, BD**, San Diego, CA 10/2024-present

**Data Scientist, HEOR & Real World Evidence, BD**, San Diego, CA 02/2023-10/2024

**Data Scientist, Alternative Data Solutions & Global Clinical Affairs, BD**, San Diego, CA 11/2021-02/2023

### Automated Analytics Solutions:

- Created scalable models/analyses for HEOR, Global Medical Affairs, Operations, and Business Units.
- Developed network models to rank and recommend Key Opinion Leaders (KOL) using a variety of datasets.
- Developed machine learning algorithm in to stratify patients into a daily infection risk ranking tool.
- Built tools to identify competitors and optimize clinical studies.
- Utilized AI tools to streamline code development and enhance quality.

### EHRs/Real World Data:

- Leverage RWD insights using admissions, microbiology, laboratory, prescription, procedures, clinical notes, financial data from multiple EHRs sources for MDR submissions, to support clinical and HEOR scientific outputs, and improve operations execution.
- Developed analytical processes and data pipelines using cloud computing to extract and distill EHRs information.
- Applied statistical methods and deep learning (GANs, VAEs) to synthesize patient data and created Python interfaces.

### Leadership:

- Managed and mentored associates and student teams on advanced modeling tools.
- Led KOL project as technical product owner, project manager, and lead data scientist.
- Presented project progress to VP-level executives and provided technical mentorship.
- Provide technical mentorship to junior data scientist at BD.
- Collaborated with data architects, engineers, clinical specialists, and product owners.
- Help establish BD Data Science Community of Practice by giving presentations and connect colleagues together.

### Awards:

- Recipient of two Exceptional Impact awards (12/2023 & 12/2022).

- Recipient of MedA award in Innovation (2022). The annual MedA Awards recognize individuals and teams that have made substantial contribution to the growth and stature of BD over the past year.

**Business Intelligence Developer/Data Analyst 3, Data Science, BD, San Diego, CA (Remote)** 11/2020-11/2021

- Led development of interactive analytical solutions using R and SQL for R&D and marketing stakeholders.
- Spearheaded the creation of an anomaly detection model for data integrity.
- Pioneered a predictive model for medical device malfunctions in Python and R.
- Collaborated with data architects, clinical specialists, and reliability engineers on analytical projects.
- Provided code reviews using version control tools (e.g., git, Azure DevOps).
- Utilized CRISP-DM to document and communicate project development with technical, leadership, and business stakeholders.

**Data Science Associate, Repurpose.AI , San Diego, CA** 04/2020-11/2020

- Conducted cheminformatics research to repurpose drugs for COVID-19.
- Utilized KNIME, keras, tensorflow, and GCP for data mining and analytics.
- Wrote SQL queries and processed training sets from public sources (e.g., BigQuery, ChEMBL, PubChem, DrugBank).
- Performed feature engineering, feature reduction, and model building to identify drug candidates.
- Conducted biological, chemical, and patent literature searches and prepared documentation.

**Graduate Affiliate, CTRIN at UCSD , San Diego, CA** 08/2018- 12/2019

- Led study on nicotine's effects on behavior in mice models of schizophrenia and bipolar disorder.
- Collected and sorted data using Med-PC IV and Excel.
- Performed statistical analyses.

**Clinical Affairs Coordinator, Discovery Life Sciences, Inc. (CRO), Los Osos, CA** 02/2016-09/2016

- Recruited and coordinated clinical sites for biospecimen collection, assessed feasibility.
- Managed IRB and Ethics Committee submissions, reviews, and study closeouts.
- Drafted regulatory and study documents (e.g., CDAs, MTAs, MSAs, protocols, guidelines, consent forms, CRFs).
- Trained study site staff and monitored study compliance.
- Presented clinical results to executives.

**Clinical Project Assistant I, US Biotest, Inc (Pharmaceutical Company), San Luis Obispo, CA** 05/2015-08/2015

- Assisted with oncology drug development.
- Collaborated with interdisciplinary team on drug approval.
- Supported FDA regulatory submissions.
- Gained familiarity with GCP/GLP guidelines.

**RELEVANT PROJECTS**

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**KOL/Products intelligence tools, BD:** 11/2021-present

- Developed R/Python tools for KOL & product tracking, recommendations, and intelligence reports using cloud services.
- Supervised five student teams on app development.

**Disease risk modeling, BD:** 04/2023-08/2023

- Created quantitative analysis and ML models to stratify patients and reduce complications/mortality risks.

**Mayo Clinic Platform\_Discover / BD Collaboration :** 2022

- Developed EHR analytical processes using cloud computing.
- Built data pipelines for clinical data cohorts and performed real-world data analyses for device surveillance and regulatory submissions.

**Medical Device Analyses, BD:** 11/2020-11/2021

- Analyzed historical device usage and KPIs for regulatory purposes, created automated reports, and developed a QA process.
- Trained an analyst for role transition.

**Team Captain, BD: MSBA Capstone Project** 03/2020-06/2020

- Led a team to predict drug needs for COVID-19 patients using R/Python, historical data, and clinical insights.
- Conducted ROI cost analysis and coordinated with BD's Director of Advanced Analytics.

**TextCraft: User-Defined Real Time Text Mining Automation Tool**

01/2020-06/2020

- Designed an R Shiny app for NLP text-mining tasks, including data cleaning, sentiment analysis, and topic detection, with results visualized on a dashboard.

**CLINICAL EXPERIENCE**

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**Post-masters Fellow, VA San Diego Healthcare System/UCSD, San Diego, CA** 08/2018-06/2019

- Provided psychotherapy and rehabilitation services to Veterans with severe mental illnesses.
- Administered clinical measures and interpreted data for treatment plans.
- Led research on nicotine and learning in Veterans with SMI; presented findings at a symposium.

**Graduate Research Assistant, University of California, Los Angeles, Los Angeles, CA** 09/2016-09/2018

- Reviewed FDA documents on psychotropic medications for preclinical to clinical trial transition.
- Updated CriticalThinkRx curriculum on psychotropic medications.
- Evaluated the Psychiatric Medication History Protocol.

**Intern, West Los Angeles VA Medical Center, Los Angeles, CA** 09/2017-05/2018

- Provided clinical care in various units including psychiatric and emergency departments.
- Conducted research on mindfulness interventions with Veterans.

**PUBLICATIONS & PRESENTATIONS**

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- Ai CE, Jung M, Bastow S, **Adjaoute G**, Bostick D, Yu KC. (2025, February). *Clinical outcomes and hospital-reported cost associated with surgical site infections and the cooccurrence of hospital-onset bacteremia and fungemia across US hospitals*. Infect Control Hosp Epidemiol 2025. doi: 10.1017/ice.2025.13
- Ai, C., Jung, M., Bastow, S., **Adjaoute, G.**, Bostick, D., Yu, K. (2024, October). *Clinical and Economic Burden of Diagnosed or Reported Surgical Site Infections in Procedures Under Surveillance by the National Healthcare Safety Network*. Poster presented at the IDWeek 2024 in Los Angeles, CA.
- Serpa, J., Bourey, C., **Adjaoute, G.**, Pieczynski, J. (2020, February). *Mindful Self-Compassion (MSC) with Veterans: A program evaluation with Improvements in mental, physical and social health and a decrease in pain medication usage*. Mindfulness.
- **Adjaoute, G.**, & Ehret, B. (2019, April) *Exploring the relationship Between Nicotine and Learning among Veterans with Severe Mental Illness*. Poster presented at the 2019 14<sup>th</sup> Annual Lewis I. Judd Young Investigators Symposium at UCSD Department of Psychiatry.

**AWARDS & SCHOLARSHIPS**

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2023	Exceptional Impact award – BD HEOR and RWE, Medical Affairs
2022	Exceptional Impact award – BD Global Medical Affairs
2022	Recipient of MedA award for Innovation across BD's Medical Affairs
2019-2020	Rady Scholar Fellowship
2019-2020	LYTX fellowship
2018	Will Rogers Scholarship
2017-2018	Veterans Administration Traineeship