


ARSENE S. BOUNDAONE

Data Scientist

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Entrepreneur and artist at heart, I excel in both creative work and structured, goal-oriented projects. I lead with connectedness and empathy, which allows me to delve to the root cause of clients' difficulties and solve them in a collaborative manner. My Data Science skills allow me to take my problem-solving skills to a higher level with the power of data to fuel ideas.

DATA SCIENCE TECHNICAL SKILLS

Python - SQL - Tableau - Matplotlib - MySQL - Pandas - NumPy - Git - Applied Statistics - ScikitLearn - Data Analytics - Regex - CSS - Streamlit - Apache Spark - Quantitative Analysis - Report Automation/Dashboards Design - Machine Learning & AI: Natural Language Processing - Classification - Regressions - Clusters - Time Series - Anomaly Detection - Long Short-Term Memory Models (Deep Learning) - Prophet Model - Cross-Validation

PROJECT MANAGEMENT AND BUSINESS SKILLS

Strategic planning - Risk management - Mentoring - Presentation - Public speaking - Microsoft tools proficient - Trello - Budgeting - Waterfall Methodology - Agile Philosophy - Scrum (working knowledge) - Communication - Scheduling - SWOT, PESTEL, Risk, BCG analysis - Reporting - Financial Analysis - Hiring - Process Improvement/Reengineering

DATA PROJECTS

Cognizant AI project (in progress)

Oct 2022

During this program, I have the opportunity to step into the shoes of a Cognizant team member and complete tasks that replicate the work that our Artificial Intelligence team does every day. I am learning how to perform exploratory data analysis, communicate results of a machine learning model, implement algorithm production, and review algorithm performance.

HR Dashboard

Sept 2022

Utilizing Tableau Desktop, MySQL Workbench & Canva, I independently developed an interactive dashboard that allows Human Resources Teams to visualize HR resources and KPIs. The dashboard accesses a database via SQL, then I use analytics and visualizations to find key insights. The dashboard utilizes multiple types of graphs to display key data points and trends to the end user and navigation buttons for ease of use.

Capstone Project: Energy Demand Forecast

Aug, 2022

As part of a team, I created a model to predict 3 days of electricity demand in ERCOT's coastal region in South-Eastern Texas using 12 years of electricity demand and weather data. Using Time Series Analysis, Sliding-Window-Splitting cross-validation, Holt-Winter's model, & Prophet model, we produced a model that production teams can use to better plan provision and bidding auctions in energy markets.

Natural Language Processing Project

Jul 2022

The goal of this project was to build a model that can predict what languages are used to build games, based on the content of READMEs on Github. As a team, we scraped Github READMEs, prepared the data using Regex, vectorized the corpora using TF-IDF Vectorizer, and deployed several models before picking the best performing model, KNN at a depth of 11.

Personal Financial Dashboard (PFD) (in continual improvement)

Jul 2022

I translated my passion for communication and client education into a PFD that analyzes personal banking and credit card accounts to assist with personal and family financial planning. The PFD will display real-time data by allowing the user to connect to multiple accounts using an API and a scraping algorithm. The user can utilize the dashboard to view their expenses or revenue from different periods as well as see trends over time. I use Python, Jupyter Notebook, VSCode, Matplotlib, Seaborn, Plotly express, and Streamlit in the development process. The elements of this product are added progressively, after testing the rendering of the completed elements on a web browser.

CERTIFICATIONS

Project Management Institute (PMI)

Project Management Professional Certification

Expires Oct 7, 2024

EMPLOYMENT STATUS

US Citizen

EDUCATION

Codeup

Data Science Training - Certificate of Completion

Fully-immersive, project-based 22-week career accelerator that provides 670+ hours of instruction in applied data science. Students develop expertise across the full data science pipeline (planning, acquisition, preparation, exploration, modeling, delivery), and become comfortable working with data to deliver actionable insights to diverse stakeholders.

Mar 2022 to
Aug 2022

North Park University

Masters of Business Administration

GPA: 3.87

The coursework covered advanced topics in financial accounting, managerial finance, quantitative analysis, economics, ethics, organizational behavior, strategic management, and marketing management, crowned by a capstone project running a business using CAPSIM and collaborating through MS Teams.

Dec 2021

Certificate in Operations Management

The coursework comprised the study and analysis of project management, production and distribution planning, linear programming in Excel, business process reengineering, and economic principles.

Jun 2020

University of Ouagadougou

Bachelor's Degree in Administration and International Law, MINOR in FISCAL LAW

The courses for this degree ranged from Law of Contracts to Administrative, International, Individual and Family Law, Micro and Macro Economics, Accounting, Fiscal Law.

Jun 2008

EXPERIENCE

Program Coordinator

Living Works Chicago - North Chicago, IL

Important business problems to solve:

Moving activities from in-person to fully online

Managing communication between tutors, clients and parents, & implementing organization's vision.

Contributions:

- Lead strategic planning including managing Covid-19-related risks, vendors management
- Reduced response delays through an integrated communication system between all stakeholders
- Planned and executed all activities with 0 cases of illness and a 33% increase in participation.
- Realized 99% coverage of programming hours through planning and new substitute system
- Implemented Technology Integration Planning (TIP) to transition all programming to online.

Sept 2020 to

May 2021

Case Manager II and Point Person

International Children's Center, Heartland Alliance - North Chicago, IL

Important business problems to solve:

Building trust with children with trauma in a highly regulated environment

Scheduling, controlling activities execution

Monitoring group activities, managing and reporting incidents

Contributions:

Implemented short-term projects, monitoring & reporting for unaccompanied, undocumented minor clients

- Designed perimeter control system & daily planning to eliminate delays in daily assignments & reports
- Co-managed assignments resulting in substantial reduction of incidents on shift over 6 months

Jul 2016 to

Apr 2018

Project Team Leader

Child Development Center, COMPASSION INTERNATIONAL, Ouagadougou, Burkina Faso

Important business problems to solve:

Complete overhaul of reporting, inventory, and accounting systems

Forming working relationships with national board, parents, community partners, schools, and clients

New recruits and volunteers

Developing sustainable income-generating projects for clients

Contribution:

Implemented a turn-around plan based on multilevel analysis of an organization that provides educational, medical, and financial support for 275 high-risk children and their families.

- Executed yearly planning & budgeting for multiple projects (variance, risk, & SWOT analyses, forecasting)
- Coordinated the recovery and meticulous correction of 2 years of accounting documents and implemented new accounting practices with verification systems reflecting industry standards
- Improved processes of selection, negotiation, and management of external vendors
- Cultivated team through hiring of three full-time and 7 part-time staff, and recruiting 25+ volunteers
- Optimized alignment between stakeholders, including the oversight board, national headquarters, parents, staff, and volunteers through implementation of novel communications strategy
- Improved reporting quality and frequency (from 83% to 100%) through rigorous tracking, accounting
- Increased project capacity to fund sustainable income-generating projects by 180% through budgeting, strategic planning, and reducing costs

Apr 2013 to

Apr 2015