

Elena Barbulescu

Data Science Analytics

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Data professional with experience as a Data Analyst, Data Management Consultant, Database Analyst and Data Scientist. Able to work independently, within a team environment, and collaborate effectively cross-functionally. Able to explain to customers, in non-technical terms, the aspects of modeling considerations as well as findings and results from data exploration and training of a model. Passionate about identifying and delivering business solutions for clients using ML/AI.

TECHNICAL COMPETENCIES

Table with 4 columns of technical competencies: SQL / Python, Machine Learning, Data Mining, ETL pipelines, Relational Databases, Star Schema; Microsoft SQL Server, Postgres SQL Server, ERDs, Data Dictionaries, Classification Models, Regression Models, Gradient Boosting Models; GitHub / ML workflow, Predictive Analytics, Pandas, Matplotlib, Seaborn, CRISP-DM; Microsoft Excel, Microsoft Office, Cognos, Data Visualizations, PowerBI, Tableau.

NON- TECHNICAL COMPETENCIES

Table with 3 columns of non-technical competencies: Communication Organization, Detail Orientation Project Management, Knowledge Retention Problem-Solving.

EXPERIENCE

3+ years consulting / customer-facing
4+ years in data management

7+ years in data analytics

3+ years learning/practicing SQL/Python
3+ years in data science

Analytics & Data Science | 2022

Data Scientist | Sight Machine, Inc -Manufacturing Digital Transformation-Hybrid April – December 2022

Execution end-to-end an ML based analytic predictive solution using Python/R

- Performing exploratory data analyses, generating and testing working hypotheses, preparing and analyzing historical data.
Working directly with clients in variable selection as well as explaining and presenting results in non-technical language with regards to model accuracy evaluation, and additional feature engineering.
Utilize a diverse set of technologies, tools and cloud services
Modeling and evaluation of training iterations (customer-by-customer, as well as iterations on existing releases)
Carry out a statistical analysis framework with F tests & T tests.
Work with senior members to communicate and collaborate effectively to the success of delivery of projects.
Ability to educate customers on project goals and solutions and set realistic expectations.

/ Customer Engagement Manager / Technical Delivery Manager

- Work with customers and data architect teams to identify data ingestion and transformation needs
Collaborate across teams, track project progress, and communicate between technical and business groups.
Exploration and application of end-user visualization tools to drive customer needs.
Maintain and update technical / non-technical documentation pertaining to aspects of responsibility

Data Science Training & Development | 2021

Machine Learning Collaborator | Omdena Volunteer/Remote September 2021 – April 2022

- Project 3: Forecasting of water availability and electricity prices for ThinkOutside.
Project 2: Build an AI tool/algorithm that can detect electrical vehicle charging from smart meter data for EnergyHub.
Project 1: Rainfall forecasting AI model to mitigate climate change variability for Kanda Weather.

Data Science Residency Program | Women in Data Volunteer/Remote November – December 2021

Examine the opportunity and need for workforce transformation. Practice of the data science method: problem understanding, project scoping, data discovery and collection, hypothesis development, analysis, validation and reporting

Database Analyst | [2021](#)

Provider Data Analyst | naviHealth Remote October - November 2021

- Working in SQL to build various queries for business needs.

SQL Freelance | Upwork Remote August - September 2021

- Short duration project on SQL consulting of a specific set of queries.

Database Analyst | AccumTech Remote February- July 2021

- Ownership over independent project to drive the execution of its components. Design of SQL queries for data extraction to test hypotheses, root cause analysis, and gain insights. Collaborate closely with developers, analysts, leaderships to empower data-driven decisions.

Data Manager | [2018 - 2021](#)

Data Management Consultant | IBM Watson Health Half Remote August 2018 – February 2021

- Lead the implementation of data feeds for databases through technical specification requirements.
- Management of databases for multiple customers: database updates, quality/metrics evaluations, offshore team management, execution of custom programming, and data investigations.
- Deep-dive data quality analyses and defining operational and/or technical solutions for remediation.
- Managing internal cross-functional relations as well as external customer

Data Analyst | [2014 – 2018](#)

Configuration Analyst | Meridian Health January- June 2018

- Identify opportunities for improvement of system tools.
- Create reports and communication documentation on findings and parameters.
- Compose new policies and procedures for a newly established departmental functionality.

Quality Assurance Specialist | Ascension Health April 2015 – January 2018

- Gather and analyze key business metrics to generate valuable insights for plans & strategy.
- Access, collect, analyze and use data to inform decision-making for various purposes: cost-containment, procedural designs, communication across departments, and impact/audit analysis.
- Produce compelling visualizations materials to leadership with actionable insight and recommendations.

Business Analyst | Genpact Healthcare Solutions August 2014- March 2015

- Analyze benefit structures, and provide recommendations or solutions on member accounts.
- Develop standard operating procedures for newly designed claims audit team.

Data Specialist | Summit Health / Quest Diagnostics January - August 2014

- Project lead in documentation of adjudicated claims data.
- Provide financial data analysis using advanced excel techniques to examine trends/patterns.
- Audit system wide functionality

## CONTINUED DEVELOPMENT

Microsoft Certified: Azure Data Scientist Associate Certification (in progress) | [February 2023](#)

DataCamp Data Analyst & Scientist with Python Career Tracks | [2021](#)

WiDS Kaggle Datathon 2021 Honorary Mention Award in Excellence in Research w/ Publication | [2021](#)

Udemy Courses in SQL Python and Machine Learning | [2020](#)

IBM AI Skills Academy Machine Learning Explorer Badge | [2020](#)

IBM Applied AI Professional Certificate | [2020](#)

IBM Data Science Professional Certificate | [2020](#)

## DEGREES

Bachelors of Science – Biology (Wayne State University, Detroit) | [2017](#)

Bachelors of Arts – Anthropology (Wayne State University, Detroit) | [2017](#)