Sameh Shehata Abdelaziz

BI & Data Analyst

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Professional Summary

Data Analyst and Business Intelligence professional with 15+ years of experience in systems analysis and data-driven problem-solving. Equipped with industry-recognized certifications in Power BI, Advanced Data Analytics, and Cloud Data Analytics, bringing modern expertise in transforming raw data into actionable insights using tools like Power BI, Tableau, SQL, and Python. Proven ability to bridge technical and business functions, driving efficiency and informed decision-making across various industries.

Core Competencies

- Data Analysis & Visualization
- Business Intelligence
- Predictive Analytics
- Data Pipeline Optimization
- Cloud-Based Analytics
- Cross-functional Collaboration
- Data-Driven Strategy Development

Technical Skills

- **BI Tools:** Power BI, Tableau, Looker, IBM Cognos
- **Programming:** SQL, Python, R
- **Data Analysis:** Pandas, NumPy, SciPy
- **Big Data & Cloud:** Google BigQuery, IBM Db2
- **Other:** Excel, Microsoft Office Suite

Professional Certifications

1. Microsoft Certified: Power BI Data Analyst Associate (PL-300) - Microsoft Learning, October 2024
  - Mastered data preparation, modeling, visualization, and analysis in Power BI
  - Developed expertise in deploying and maintaining scalable BI solutions
  - Proficient in DAX for advanced calculations and data modeling

2. Google Advanced Data Analytics Professional Certificate - Coursera, August 2024
  - Completed 7 comprehensive courses covering advanced analytics topics
  - Mastered statistical analysis techniques using Python, including hypothesis testing and regression analysis
  - Developed machine learning models for classification, clustering, and prediction tasks
  - Applied advanced analytics to real-world business problems in the capstone project

3. Google Business Intelligence Professional Certificate - Coursera, August 2024
  - Mastered BI foundations, including data warehousing concepts and ETL processes
  - Developed expertise in creating interactive dashboards and reports
  - Gained skills in data pipeline development and optimization

4. Google Cloud Data Analytics Certificate - Google Cloud Skills Boost, August 2024
  - Gained proficiency in cloud-based data analytics using Google Cloud Platform
  - Mastered BigQuery for large-scale data analysis and SQL querying
  - Learned data cleaning and preparation techniques using Cloud Dataprep
  - Developed skills in creating data visualizations with Data Studio (now Looker Studio)

5. IBM Data Analytics Professional Certificate - Coursera, November 2023
  - Completed 9 courses covering various aspects of data analysis
  - Developed proficiency in using Python for data analysis, including Pandas and Matplotlib
  - Mastered SQL for data manipulation and analysis in relational databases
  - Gained experience in data visualization techniques and tools, including IBM Cognos Analytics

6. Google Data Analytics Professional Certificate - Coursera, November 2023
  - Completed comprehensive program covering data analysis fundamentals
  - Developed proficiency in R programming for statistical analysis and data visualization
  - Mastered data cleaning, transformation, and analysis techniques
  - Gained experience in creating compelling data visualizations and presentations

7. McKinsey Forward Program - McKinsey, November 2023
- Developed crucial skills in problem-solving and structured thinking
- Enhanced communication skills for presenting data-driven insights
- Improved adaptability and digital literacy for fast-paced business environments
- Learned design thinking principles for innovative problem-solving

Professional Experience

Freelance Data Analyst
2022 - Present
- Transform raw data into actionable insights using Power BI, Tableau, and Looker, significantly enhancing client decision-making processes.
- Develop and implement data pipelines that substantially increase data processing efficiency across various client projects.
- Conduct comprehensive data cleaning, exploration, and visualization projects, leading to notable improvements in data quality for clients.
- Collaborate with diverse industries, adapting analytical approaches to unique business challenges and driving data-informed strategies.

Aeronautical Telecommunication Officer
NANSC [National Air Navigation Service Co.], Cairo, Egypt | 2009 - Present
- Leverage complex systems analysis skills to optimize air navigation processes, contributing to a significant reduction in communication errors.
- Utilize Excel and Office Suite tools to translate intricate data into actionable insights, supporting improvements in operational efficiency.
- Implement data-driven solutions that enhance safety protocols, leading to a measurable decrease in incident reports.
- Develop and maintain databases for air traffic information, ensuring high levels of data accuracy and availability.

Education

Bachelor's Degree in Chemistry and Microbiology
Ain Shams University, Cairo, Egypt
Graduation Year: 2008

Projects

Applied Data Science Labs - WorldQuant University, August 2024
Completed eight advanced data science projects with a minimum score of 90% on each:

1. **Housing in Mexico:** Analyzed 21,000 property listings using Python and Pandas, identifying key price drivers.
2. **Apartment Sales in Buenos Aires:** Developed linear regression model in Python to predict prices, achieving 85% accuracy.
3. **Air Quality in Nairobi:** Implemented ARMA time-series model using statsmodels, forecasting pollution levels with 90% accuracy.
4. **Earthquake Damage in Nepal:** Applied logistic regression and decision trees in scikit-learn to predict damage, achieving 80% precision.
5. **Bankruptcy in Poland:** Built random forest and gradient boosting models using XGBoost, improving prediction accuracy by 25%.
6. **Customer Segmentation in US:** Performed k-means clustering using scikit-learn, identifying 5 distinct customer segments.
7. **A/B Testing at WorldQuant University:** Conducted hypothesis testing using SciPy, increasing email engagement by 15%.
8. **Volatility Forecasting in India:** Developed GARCH model using arch library, improving volatility predictions by 20%.

Languages
- English (Very Good)
- Arabic (Native)