

OMAR ABU LAYLA

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SUMMARY

Data Scientist with a strong foundation in healthcare and biomedical engineering. Proficient in Python, PostgreSQL, data visualization, statistical analysis, and machine learning. Experienced in analysing and cleaning large datasets, including work with extensive data at Alcon, and delivering actionable insights. Skilled in project management, cross-functional collaboration, and technical presentations, with a passion for leveraging data science to drive innovation and impactful solutions.

EDUCATION

GERMAN JORDANIAN UNIVERSITY

Bachelor of Science in Biomedical Engineering

• Rating: Very Good.

Amman, Jordan

Graduated: November 2023

HOCHSCHULE OFFENBURG

Exchange Semester

Offenburg, Germany

October 2022 – February 2023

DATA SCIENCE TRAINING AND CERTIFICATION

DataCamp

Associate Data Scientist in Python – SQL (Certified)

Online

November 2024 – February 2025

- Completed 120 hours of intensive coursework, spanning 23 modules focused on Python programming, data analysis, and machine learning, did 3 exams and passed them all with excellent grade leading to gaining the official certificate.
- Gained proficiency in Python foundations, with an emphasis on Intermediate Python and Pandas for data manipulation and cleaning.
- Conducted Exploratory Data Analysis (EDA) on diverse datasets to uncover patterns and derive actionable insights.
- Gained hands-on experience in data visualization using Matplotlib and Seaborn to communicate effectively.
- Statistical Analysis: Descriptive Statistics, Probability Theory, Hypothesis Testing, p-Values, Confidence Intervals, Correlation & Causation, Regression Models (Linear and Logistic Regression), Data Interpretation (Statistical Modeling, Results Interpretation, A/B Testing).
- Acquired foundational skills in Supervised/Unsupervised Learning, Feature Engineering, Model Evaluation, and PostgreSQL for database management and data querying.
- Completed 14 Data Science projects, including analyzing real-world datasets, and developed 9 independent Python projects, demonstrating applied expertise in machine learning, deep learning (using TensorFlow and Keras), and data processing.

PROFESSIONAL EXPERIENCE

GULF DRUG LLC

Projects and Solutions Engineer (Biomedical Engineer)

Dubai, UAE

November 2023 – November 2024

- **Turnkey Projects:** Selected OT equipment for UAE and international projects, ensuring compliance with client needs.
- **Proposal Development:** Prepared financial and technical proposals for multi-million-dirham surgical projects
- **Project Execution:** Contributed to successful operating theatre setups through equipment recommendations.

- **Python Script Development:** Utilized a Python script to connect to lab devices, automate testing and collect results for approximately 20k samples.
- **Data Collection & Cloud Storage:** Stored the collected data in the company cloud after test completion, ensuring efficient and secure management.
- **Data Analysis & Insights:** Analysed the data using Python and Excel, applying statistical and analytical methods to derive actionable insights.
- **Parameter Optimization:** Optimized device performance by analysing the data and identifying the best parameters, achieving a 90% success rate in improving testing accuracy.
- **Collaboration & Reporting:** Worked closely with team members and suppliers in German to ensure the system met technical specifications and provided regular updates and findings to senior engineers, contributing to the overall project success.

SKILLS

Technical Skills

- **Microsoft Office Suite** (MS Word, MS PowerPoint, MS Excel)
- **Python:** (pandas, NumPy, Matplotlib, Seaborn, TensorFlow, Keras, StatsModels), SQL (PostgreSQL)
- **Data Analysis:** Exploratory Data Analysis (EDA), Statistical Analysis, Data Cleaning
- **Machine Learning:** Supervised and Unsupervised Learning, Model Evaluation, Feature Engineering
- **Deep Learning:** Neural Networks, TensorFlow, Keras
- **Data Visualization:** Matplotlib, Seaborn
- **Database Management:** PostgreSQL, Data Querying

Soft Skills

- Leadership and Decision-Making
- Strong Interpersonal and Communication Skills
- Educator & Trainer
- Pressure Tolerance & Time Management
- Multitasking Abilities

Languages

- Arabic (Native)
- English (Fluent)
- German (Upper Intermediate – B1)