Dr. Lylan Bramasole

Data Analyst | AI Specialist | Biology Researcher/ Specialist

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SUMMARY

Data Analyst with a PhD in Cellular Biology background and a decade of experience managing high-stakes research and untangling complex biological datasets. I combine a veteran's eye for data cleaning and rigorous statistical reasoning with a modern technical toolkit, including SQL and Python (Pandas, NumPy). Expert at distilling dense, technical findings into clear narratives and actionable insights for non-specialist audiences, I am dedicated to delivering evidence-based conclusions across the business, clinical, and health sectors.

CORE SKILLS

- **Data Analysis:** Exploratory Data Analysis (EDA), Data Cleaning & Wrangling, Statistical Inference, SQL& Python (Beginner), Excel (Advanced), ,
- **Visualization:** Narrative-driven Data Presentation, Python Dashboarding, Tableau, Excel Visualization, Storytelling with Data.
- **Project Management:** Strategic Planning, Technical Documentation, Remote Collaboration.
- **Languages:** English (Full Professional), German (Independent User), Arabic & Hebrew (Native).

PROFESSIONAL EXPERIENCE

➢ Data Analysis Training Course

CareerFoundry, Berlin | 2025 – 2026

Intensive project-based online training program with a focus on learning the technical skills: Excel, SQL, Python, and Tableau. In addition to EDA, Statistical analysis, predictive modeling, Data Scraping (NLP, NER), Python dashboards, presentations, and writing analytical reports, and a GitHub repository.

Project 1: Strategic Analysis of the German Job Market 2025

Challenge: Analyzed labor market dynamics to identify high-growth career pathways and salary drivers amidst shifting economic trends.

Action: Developed a Python-based end-to-end pipeline utilizing K-Means clustering to segment roles and Time-Series forecasting to predict employment growth, visualized through an interactive Tableau dashboard.

Result: Discovered that experience level explains 57% of salary variation and identified North Rhine-Westphalia and Bavaria as the highest-volume opportunity hubs, providing data-driven strategic takeaways for stakeholders.

Project 2: Medical Staffing Optimization for Influenza Season

Challenge: Assisted a staffing agency in determining the optimal timing and allocation of temporary medical personnel across US states to meet flu-related surges.

Action: Conducted a comprehensive analysis of CDC influenza mortality data and population density; utilized Excel for data synthesis and Tableau to create a risk-stratified geographic heat map**.**

Result: Identified high-vulnerability regions and recommended a proactive staffing schedule that aligns personnel deployment with historical peak infection windows, minimizing hospital understaffing risks.

➢ **Research Assistant**
Research Center Borstel and Kiel University | July 2021 – May 2025

- **Analytical Problem Solving:** Steered two major molecular research initiatives from initial concept to peer-reviewed publication. I was responsible for identifying and resolving data bottlenecks that threatened project timelines.
- **Data Management:** Utilized Excel for systematic data collection, cleaning, and preliminary statistical analysis of large experimental datasets.
- **Strategic Presentation:** Translated high-level molecular findings into clear, structured reports and manuscripts for academic and non-specialist audiences.
- **Team Supervision:** Oversaw technical lab workflows and mentored graduate students, emphasizing the importance of data integrity and meticulous record-keeping.

➢ **AI Specialist (Project-Based)**
Remote | June 2025 – Sept 2025

- **Data Integrity & Validation:** Performed deep-dive audits of AI-generated transcriptions. I manually corrected errors in linguistic nuance and technical terminology to ensure the datasets were fit for high-level model training.
- **Fact-Checking & Sourcing:** Established a rigorous verification process for AI-generated academic citations. I cross-referenced sources to eliminate "hallucinations" and ensure all data points were current and factually sound.
- **Remote Operations:** Managed deliverables independently using Slack and Zoom within a globally distributed team.

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EDUCATION

PhD in Cellular Biology, University of Cologne, Germany | 2016 – 2021
Master of Science in Human Biology, University of Haifa, Israel | 2013 – 2015

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CERTIFICATIONS & DEVELOPMENT

- **Diploma in Clinical Research & Medical Writing:** ICH-GCP Principles (Udemy, 2024)
- **Fundamentals of Project Planning and Management:** University of Virginia (2020)
- **Advanced Scientific Writing:** Publishable Research Articles Workshop (2020)
- **Skills for Project Leaders/Managers:** Professional Development Workshop (2019)
- **Presenting and Audience Discussion Skills:** Professional Workshop (2018)