

ROZETTE HESSE

Data Scientist | Entrepreneur

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Education

Jul 2022- Jun 2023	EDHEC Business School MSc in Data Analytics & Artificial Intelligence with Data Science Emphasis <i>QS-EDHEC 50% Scholarship Holder - EDHEC Student Ambassador, GPA: 17/20</i>	Lille, France
Aug 2017- Jun 2021	Lebanese American University B.S. in Bioinformatics, Minor in Business Data Analytics <i>Placed on Honor List, cGPA:3.31</i>	Beirut, Lebanon

Relevant Experience

Sep 2025- Present	Lebanese American University AKSOB ITOM Department Adjunct Faculty	Beirut, Lebanon
- Teach AI in Business & IT Management using applied, case-based, and interactive methods. - Supervise projects on business processes, databases, dashboards, and AI solutions. - Assess student work in analytics, enterprise systems, and digital transformation.		
Feb 2024- Present	InBalance Founder & CEO	Beirut, Lebanon
- Founded and led an AI-driven women's health startup focused on hormonal wellness. - Developed machine learning models for cycle prediction and symptom-based insights. - Designed an AI recommendation engine for personalized food, movement, and wellness guidance. - Led product strategy, business development, partnerships, and accelerator applications. - Built and coordinated a cross-functional team across AI, healthcare, and business. - Pitched and showcased InBalance at GITEX, VivaTech, and AI Summit.		
Aug 2023- Aug 2024	L'Oréal Liban Data Analyst & Revenue Growth Management Specialist	Beirut, Lebanon
- Managed and analyzed sales and stock data of primary and secondary clients to optimize business strategies. - Optimized sales forecasting models, reducing stock inefficiencies by 15%. - Developed data visualization dashboards to track performance trends and drive decision-making. - Identified growth opportunities via in-depth market sales analysis, driving 8% increase in targeted revenue. - Received the Best Learning Agility award after 3 months of joining.		
Sep 2021- Sep 2022	TeamTek Consulting Project Manager Officer & Delivery Consultant	Remote London, UK
- Identified inefficiencies in the hiring workflow and proposed an applicant tracking system. - Implemented an ATS and optimized talent sourcing & onboarding reducing recruitment time by 30%. - Worked closely with sales and back-office teams to align processes and enhance internal system integration. - Managed the sales and client relationships with banks in the Middle East, increasing retention rates.		
Apr 2019- May 2021	Academic Success Center LAU Biostatistics Tutor	Beirut, Lebanon
- Provided the most attended walk-in and online tutoring sessions with 50+ students per session. - Created structured lesson plans and personalized study guides, simplifying complex statistical concepts. - Helped students improve their grades significantly, with 80% achieving A as a final score. - Provided hands-on- SPSS training, ensuring students could analyze data effectively.		
Jun 2019- Aug 2019	Lyra Analytics Machine Learning & Data Science Intern	Remote, Egypt
- Designed and implemented machine learning models of 93% accuracy to predict client inventory needs. - Led data analysis projects, identifying key trends to optimize client resource allocation. - Developed automated reports and dashboards, improving real-time decision making for clients. - Collaborated with a team of four to refine predictive algorithms, driving higher operational efficiency.		

Projects, Research & Peer Reviewed Publications

Aug 2022- Feb 2023	PCOS Diagnosis & Treatment Prediction Machine Learning & Data Science Research Project	EDHEC Business School
	- Built a CNN model to predict PCOS diagnosis & treatment, improving accuracy by 95%. - Integrated EHR data for AI-driven clinical decision support in endocrinology and gynecology. - Compared AI vs. traditional methods, demonstrating faster, more precise diagnosis.	
Dec 2021- Feb 2022	Topological Edge Set Enrichment Analysis Research Assistant	University of Bergen
	- Conducted literature review on topological edge set enrichment analysis and dysregulated pathways. - Optimized the mathematical method used to calculate the topological edge scores. - Validated the adjustment's effect on identifying the usual and dysregulated pathways.	
Jun 2021- Aug 2021	Tutoring Optimization & Recommender System Machine Learning Project	Academic Success Center, LAU
	- Designed an AI-powered tutor-student scheduler, reducing conflicts by 35%. - Developed a Python-based recommender for matching students with ideal tutors. - Built a Tableau dashboard to track tutoring performance & success rates.	
Sep 2021- Dec 2021	Music Informatics Network Science Research Project	Remote, Lebanon
	- Implemented supervised learning & network science to cluster music genres from letter notation. - Transforming audio into letter notation using R to be read as DNA. - Developed a graph-based AI model for music similarity detection using R, Gephi & Cytoscape.	
Apr 2020- Aug 2020	Biomedical Applications of Biomaterials Copy-editing	Remote, Lebanon
	- Reviewed and refined scientific content, structure, and clarity for a peer-reviewed biomaterials study. - Ensured technical accuracy and consistency in discussing biomedical applications and patents. - Collaborated with researchers and co-authors to enhance readability while maintaining scientific integrity. <i>Kousar, S.S., Hesse, R., K.S, M. (2020), A Comprehensive Review on Biomedical Applications of Biomaterials: Patents of the Decade (2011-2020)</i>	
Jan 2020- Jan 2021	Integrin Bioinformatics Study Capstone Project	Schools of Arts & Science, LAU
	- Reviewed literature related to integrin family proteins and cleft palate formation. - Conducted coevolutionary studies on integrin subfamilies. - Predicted secondary structures of certain integrin subunits using I-TASSER. - Investigated protein-protein interactions via molecular docking using Swisspdb.	
Jan 2020- Apr 2020	Keratoconus Prevalence in Lebanon Research Assistant	Schools of Arts & Science, LAU
	- Conducted primary source research through surveys on Keratoconus across the Lebanese population. - Explored the data to identify important genetic attributes. - Identified the relationship between demographics and KC using SPSS and R. - Validated the accuracy of the logistic regression model created to display the important attributes. <i>Hamman, A., Hesse, R., Atat, O., Najem, S., Azzam, W., Farraj, L., & Sabbagh, M. (2020), Global Increase in the Prevalence of Keratoconus across the Lebanese Population</i>	

Skills, Languages, & Interests

Programming languages: R Programming, Python, Java.

Awarded ninth place in the LAU Collegiate Programming Contest 2019 in Java.

Visualisation tools: Tableau Public, Cytoscape, Gephi.

Database tools: SQL, BigQuery (completed online Specialization From Data to Insights with Google Cloud).

Hard skills: Data Driven Design Thinking, Data Visualization, Script Programming, Quantitative Analysis, Statistics.

Languages: Fluent in both Arabic and English, Intermediate in French.
