

Sara Allali

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EDUCATION

Chapman University, Orange, CA

Master of Science in Computational & Data Sciences

Graduated May 2025

Bachelor of Arts in Psychology, Minor in Analytics

Graduated May 2024

Honor's Magna Cum Laude

2024

Provost's list

2021-2024

Relevant Coursework:

- | | | |
|--------------------------------|-------------------------------|----------------------------------|
| • Statistical Machine Learning | • Deep Learning | • Data Structures and Algorithms |
| • Interactive Data Analysis | • Natural Language Processing | • Multivariate Data Analysis |
| • Data Mining | • Applied Business Analytics | • Data Management |

TECHNICAL SKILLS

- | | | |
|----------|---------|-------------------------|
| • Python | • Excel | • Power BI |
| • R | • Java | • Tableau |
| • C++ | • SQL | • HTML, CSS, JavaScript |

PROFESSIONAL EXPERIENCE

Data & Systems Analyst/Coordinator | Chapman University - Orange, CA

August 2025 – Present

- Administer and optimize career technology platforms, enhancing data accuracy and user experience for users.
- Lead data integration projects, importing, exporting, and transforming complex datasets to support strategic reporting and institutional planning.
- Design and maintain interactive Power BI dashboards, tracking KPIs such as engagement, outcomes, and platform usage, improving data visibility by 25%.
- Coordinate with IT, advising, and engagement teams to ensure data alignment with university goals
- Develop and enforce best practices for data governance, reporting, and documentation; train staff and student assistants to enhance departmental data literacy.

Data & Systems Analyst Assistant | Chapman University - Orange, CA

October 2023 - May 2025

- Cleaned and analyzed data to ensure accuracy and support data-driven decision-making.
- Developed interactive Power BI dashboards to enhance strategic insights for leadership.
- Assisted in survey design for campus-wide research, enabling insights into student experiences.
- Ensured data integrity through validation and collaboration; supported ad hoc projects as needed.

RELEVANT PROJECTS & EXPERIENCE

Predictive Model for Neonatal Sepsis Detection

- Built a predictive model in R and SQL achieving ROC 0.93 and 99.8% sensitivity, improving early detection accuracy for neonatal sepsis.
- Applied SMOTE for class balancing and leveraged SHAP for model interpretability, enabling transparent feature impact analysis for clinicians.

Profit Analysis and Departmental Insights

- Consolidated multi-table datasets in SQL to assess budgets, salaries, and revenues across departments.
- Developed an interactive Power BI dashboard to visualize financial performance and resource allocation, enhancing executive decision-making.

AI Research Fellow | Klarbook - Remote

July 2025

- Selected to join a national AI research fellowship focused on studying automation and industry trends; contributed to survey design and outreach strategy.

CERTIFICATIONS

MLOps Concepts | DataCamp

Nov 2025

Machine Learning for Business | DataCamp

Nov 2025

Communication for Technical Professionals | Udemy

Oct 2025

The Complete SQL Bootcamp | Udemy

Aug 2024