# 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
- Interactive Data Analysis
- Data Mining
- Deep Learning
- Natural Language Processing
- Applied Business Analytics
- Data Structures and Algorithms
- Multivariate Data Analysis
- Data Management

## TECHNICAL SKILLS

- Python
- R
- C++
- Excel
- Java
- SQL
- Power BI
- Tableau
- 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.

**Eye Disease Classification using Deep Learning**

- Built a Convolutional Neural Network (CNN) in Python (TensorFlow/Keras) to classify retinal images into four categories, supporting early detection of diabetic retinopathy, cataract, and glaucoma.
- Preprocessed and augmented ~4,000 images, improving model performance and interpretability through evaluation metrics and visualization techniques.

**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

**The Complete SQL Bootcamp** | Udemy — Aug 2024