

SARA ALLALI

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EDUCATION

Chapman University - *M.S. Computational & Data Sciences* (Aug 2023 - May 2025)
Chapman University - *B.A. Psychology, Minor Analytics* (Aug 2020 - May 2024)

EXPERIENCE

AI Research Fellow | Klarbook (Remote) Jul 2025 - Present

- Collaborated on a national AI research study analyzing industry trends in automation and AI.
- Coordinated data collection through structured outreach and survey methods, ensuring accurate and organized real-world data.
- Delivered insights for a published report while gaining experience with modern AI tools.

Data and Systems Analyst Assistant | Chapman University Oct 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.

SKILLS

Programming & Tools: Python, R, SQL, Java, C++, Excel, Power BI, Tableau, Alteryx, Salesforce, HTML/CSS/JS, QGIS

ML & Analytics Frameworks: scikit-learn, TensorFlow, Keras, PyTorch, SHAP, SMOTE, Pandas, NumPy, dplyr, tidyverse, Matplotlib, Seaborn, ggplot2, DAX

NLP & Deep Learning: spaCy, NLTK, LSTM, CNNs, Transformers

Research & UX Tools: Qualtrics, SurveyMonkey, Typeform, MS Forms, Figma, Notion, Canva

PROJECTS

Predictive Model for Neonatal Sepsis Detection | SQL, R, SMOTE, SHAP, [Project Link](#)

- Built a predictive model achieving ROC 0.93 & 99.8% sensitivity, applied SMOTE to balance classes, and used SHAP for feature interpretability.

Profit Analysis and Departmental Insights | SQL, Power BI, DAX, [Project Link](#)

- Merged multi-table datasets to analyze budgets, salaries & revenues. Built a dynamic Power BI dashboard to visualize financial performance & resource allocation.

Multimodal AI for Radiology | Python, NLP, PyTorch, Transformers, [Project Link](#)

- Developed a deep learning model integrating X-ray images & radiology reports with CLIP/BLIP for automated captioning & Visual Question Answering (VQA).

LEADERSHIP & INVOLVEMENT

- **Career Fair Support**, Chapman University (Spring 2024, Fall 2024, Spring 2025)
Assisted in organizing the largest career fairs, enhancing employer–student engagement.
- **Giving Day Photoshoot Participant**, Chapman University (Annual Giving Programs)
Supported marketing initiatives promoting campus fundraising and engagement.
- **Clubs:** Girls Who Code (GWC) | Data Analytics Association

CERTIFICATIONS & HONORS

- **Certifications & Training:** Data or Specimens Only Research (CITI Program), Tableau Desktop: Speed & Performance Optimization, The Complete SQL Bootcamp: Go From Zero to Hero
- **Awards & Recognition:** Provost's List (2021-2024) | Honor's Magna Cum Laude (2024)