

Rayan Al Abdallah

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Professional Summary

Computer Science graduate specializing in Artificial Intelligence and Machine Learning, with hands-on experience in data preparation, model training, and evaluation for both NLP and computer vision applications. Skilled in Python, data preprocessing, and applying ML workflows from dataset gathering to model deployment concepts. Experienced in collaborating with teams, conducting literature reviews, and working with open-source frameworks such as Hugging Face, TensorFlow, and PyTorch. Passionate about continuous learning and contributing to impactful AI-driven solutions.

Core Skills

- Programming: Python, Java, JavaScript, HTML, CSS, SQL, Dart
- ML/AI: scikit-learn, TensorFlow, PyTorch, Hugging Face Transformers, OpenAI GPT API, LangChain
- NLP: Tokenization, embeddings, sentiment/emotion detection, BERT, VADER, TF-IDF, spaCy, NLTK
- Data Handling: Pandas, NumPy, data cleaning, preprocessing, feature engineering
- Computer Vision: Image preprocessing, model evaluation
- Tools: Jupyter Notebook, Google Colab, Git, GitHub, Matplotlib, Seaborn
- Web Development: PHP, MySQL, interactive dashboards
- Languages: Arabic (Native), English (Advanced)

Relevant Projects

Machine Learning Intern – Student Performance Prediction

Aug 2025 – Present

- Built regression models to predict exam scores using the Student Performance Factors dataset.
- Conducted data cleaning, feature selection, and training/testing split.
- Applied evaluation metrics (R^2 , MSE, MAE) and documented results for team review.

NLP Project – Emotion Detection in Text (College Project)

May 2025 – June 2025

- Designed an NLP pipeline using classical ML, statistical, and transformer-based models.
- Utilized Hugging Face Transformers for fine-tuning and domain adaptation.

- Implemented tokenization, embeddings, and preprocessing; evaluated with accuracy, precision, recall, and F1-score.

AI-Powered Auto-Advising System with Dashboards

Feb 2025 – May 2025

- Developed a PHP-MySQL web platform for academic advising based on student records.
- Integrated OpenAI GPT API for AI-generated course recommendations.
- Designed secure database and implemented role-based dashboards.

Sentiment Analysis & RAG Chatbot for User Reviews

Feb 2025 – May 2025

- Built a sentiment analysis pipeline using VADER, BERT, and GPT LLMs.
- Applied NLP preprocessing (tokenization, lemmatization) and integrated RAG chatbot for interactive insights.

Education

Lebanese International University (LIU) — Bachelor in Computer Science (2021–2025)

Amir Shakib Arsalan High School — Lebanese Baccalaureate in Life Science (2020)

Certifications

- AI & Digital Marketing Scholarship Program (4/2025 – 13/2025)
- Data Analysis — Simplilearn (6/2024 – 10/2024)
- Introduction to Networks — Cisco
- Switching, Routing, and Wireless Essentials — Cisco
- Leading a Team Through Change — LinkedIn

Volunteer & Leadership

Volunteer Tutor – Mouvement Social (2024 – Present)

- Teach math, science, and technology to children in grades 1, 2, and 6.
- Develop lesson plans and mentor students in problem-solving skills.

Journalism Team Member – Mouvement Social (2024 – Present)

- Research and write articles for a quarterly publication in France, collaborating with an international editorial team.

Soft Skills

Problem-Solving & Critical Thinking

Team Collaboration & Communication

Continuous Learning & Adaptability

Ability to Take Feedback and Work in Mentorship-Driven Environments