

# Grace Abou Dib, Computer Science Graduate, Published Author

Lebanon, (+961)70808280, graceaboudib@gmail.com, :www.linkedin.com/in/grace-abou-dib

**PROFILE** I am a highly motivated and dedicated individual with a strong commitment to continuous learning and skill development even outside the scope of my major. I strive to complete all tasks with accuracy and precision aiming for excellence in everything I do.

## EDUCATION

**Bachelor of Science in Computer Science**, Holy Spirit University of Kaslik.

**Kaslik, Lebanon**

**GPA:** 88.37/100

**09/2022-05/2025**

**Classification:** Honors

**Oxford Machine Learning Summer School - OxML 2025:** MLx Generative AI

**LSE, United Kingdom (remote)**

**05/06/2025-07/06/2025**

A three-day intensive program given by global experts and professors tackling the following topics:

- **AI Research Methodologies:** Advanced AI research foundations for hypothesis formation and testing, and automated design principles for Agentic systems that emphasize exploration and diversity in innovation.
- **Agent Governance and Verification:** Agent guardrails, proof-of-agenthood topologies, behavioral verification systems, and identity management frameworks for ensuring accountability and trust in autonomous agent deployments.
- **Generative AI Implementation:** Generative AI evaluation methodologies, LLM fine-tuning techniques for industry-specific applications, and best practices for transitioning AI models from development to real-world enterprise deployments.

**Business Analysis Academy**, Eurisko

**Adma, Lebanon**

**11/2024-01/2025**

- A two-month intensive course introducing and detailing processes and tools used in Business Analysis.
- Sessions included details on collaboration tools like Jira, Slack and Confluence. Agile Methodology, Software Development Life Cycle and Business Analysis Life Cycle were tackled as well.
- Customer Journey, Workflow Mapping, Backlog Prioritization and Optimization Techniques, Data Analysis for BA and Managing Test Cases were evaluated through tests and assignments.

## WORK EXPERIENCE

**Macrovision**

**Remote**

*Data Engineering Intern*

**01/2025-02/2025**

- Gained proficiency in AWS cloud services such as EC2 instances, S3, Lambda functions, IAM.
- Acquired hands-on experience with Git and GitHub actions (CI/CD).

**Geek Express**

**Remote**

*Microsoft Certified Tutor*

**08/2024-01/2025**

- Tutored students aged 5-7 years old basic programming concepts using user-friendly platforms like Scratch and CodeSpark.
- Tutored students aged 14-17 years old introductory principles like loops, conditionals and scripts in Python, in addition to additional to essential libraries like NumPy and Pandas, Matplotlib, Seaborn for Data Science purposes to be able to build AI models.

**Neumann AI**

**Remote**

*Full-Stack Developer Intern*

**08/2024-10/2024**

- Engineered a fully functional web application utilizing HTML, CSS, JavaScript, and Bootstrap; incorporated animations through jQuery to enhance user engagement, resulting in a 40% increase in user interaction metrics.

## LEADERSHIP ROLES & PROFESSIONAL MEMBERSHIPS

University Student Council Member, Faculty of Arts and Sciences Representative

**Kaslik, Lebanon**

**10/2024-05/2025**

- Improved my communication, listening and leadership skills.
- Ensured the students' voice was heard and helped in organizing events to improve campus life.
- Completed weekly office hours and submitted weekly minutes of meeting, as well as proposals when needed.

Semicolon Academy Ambassador

**Kaslik, Lebanon**

**10/2024-05/2025**

- My responsibilities included growing the cybersecurity community and organizing workshops at my university.

IEEE Member

**02/2024- Present**

**SKILLS & PERSONAL**

**LANGUAGES:**

- Arabic (C2)                                      French (B2)
- English (C1)                                      German (A1)

**TECHNICAL SKILLS:**

- Programming Languages: Java, C, C++, Python.
- Data Science & Analytics: Pandas, NumPy, Matplotlib, Seaborn, Numerical Analysis, Statistics and Probability.
- Machine Learning & AI: TensorFlow, Scikit-Learn, OpenCV, AI Agents, Experta (Knowledge-based AI).
- Web Development: HTML, CSS, JavaScript, Bootstrap, Flask, FastAPI.
- Database Technologies: SQL, MYSQL, PL/SQL, PostgreSQL.
- Computer Science Fundamentals: Object-Oriented Programming, Data Structures and Algorithms, Operating Systems, Computer Networks.
- Cloud & Version Control: AWS, GitHub.
- Optimization Algorithms & Operations Research: Google OR-Tools, Genetic Algorithms, Simulated Annealing, Swarm Intelligence.
- Mobile Development: Flutter.
- Business Analysis.

**SOFT SKILLS:** Adaptability, Leadership, Analytical Thinking, Communication Skills, Teamwork, Time Management.

**CERTIFICATIONS:** AI in Healthcare Workshop 2025, PCEP-30-02 Certified Entry Level Python Programmer 2024, Soft Skills Training Program 2024, Emotional Intelligence Workshop 2024, Personal Branding Workshop 2023, Introduction to AI and ML course ESIB-USJ 2021.

**ACHIEVEMENTS:** Self-published my first poetry book Space And Time 2023.

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**PROJECTS**

**Scheduling Tool: Multi-Algorithmic Approaches to Adaptive and Intelligent Scheduling**

- Developed an intelligent task scheduling system utilizing multiple optimization algorithms including GA, SA, SI and Google OR-Tools, with automatic algorithm selection based on problem complexity analysis and constraint characteristics.
- Implemented a scalable 86-class system with data-driven constraints, supporting multiple scheduling modes (strict, flexible, hybrid, recommendation) and featuring a comprehensive web interface with calendar visualization.
- Currently working on implementing an adaptive preference systems through Markov Chain Models that learn from user behavior patterns, enabling the system to provide personalized scheduling recommendations and continuously improve performance based on user feedback.

**Alzheimer's Disease Diagnosis Classifier**

- The dataset included demographic, lifestyle, medical and genetic variables. Preprocessing included encoding, scaling, dropping features that didn't show correlation with the target.
- After experimenting with several models like Logistic Regression and Naive Bayes, The Random Forest Classifier model yielded the best results.

**Ovarian Cancer Subtype Classification**

- Using the dataset consisting of Whole Slide Images from Kaggle, I preprocessed my data using OpenCV to downsample my images and storing them in NumPy arrays.
- My training model consisted of a CNN mostly relying on TensorFlow, Conv2D and MaxPooling.

**Bookstore Management Information System**

- Programmed a bookstore MIS on Eclipse using pure Java where the books' details are stored in CSV files.
- The functionalities include updating, retrieving, adding and deleting records for authors, publishers, employees, bookstore branches and orders.