



Master Programs

Please do not exceed one page for all the information

Master Program	Artificial Intelligence and Data Engineering
Master Type	<input type="checkbox"/> M1+ M2 Professional <input checked="" type="checkbox"/> M2 Professional <input type="checkbox"/> M2 Research
Teaching Language	<input checked="" type="checkbox"/> English <input type="checkbox"/> French <input type="checkbox"/> Mixed - English & French
Place of Teaching	<input checked="" type="checkbox"/> Hadat <input type="checkbox"/> Fanar <input type="checkbox"/> Tripoli <input type="checkbox"/> Nabatieh
About the Program	<p>The Master in Artificial Intelligence and Data Engineering at the Lebanese University is an academic program designed to equip students with the necessary knowledge and skills in the two main fields nowadays: artificial intelligence (AI) and data engineering (DE). This program offers a deep theoretical courses and practical internship experience, enabling students to develop a deep understanding of AI principles, data processing, algorithms, and applications. This master is a collaborative effort between the Faculty of Science and the Faculty of Engineering at the Lebanese University from one side and the well-known Thales company, which is a leader in the fields of technology and security from the other side.</p>
Program Learning Outcomes	<ul style="list-style-type: none"> • Master advanced AI and data engineering technologies, including machine learning algorithms, deep learning frameworks, and data processing, and implement AI models using most used programming languages in the field like Python and trend libraries like TensorFlow, Keras, and scikit-learn. • Solve real-world problems and deploy machine learning models using tools like Docker, Kubernetes, Flask, and FastAPI. • Gain experience on professional AI and data engineering projects through internships and collaborate effectively with multidisciplinary teams and industry professionals. • Understand and address the ethical issues and the impacts on society of AI applications, ensuring compliance with data privacy, security, and ethical standards in AI field. • Work on the innovation part of students by exploring new ideas and approaches in AI and data engineering and participate in multidisciplinary research and projects to develop novel solutions.
Fields of Work	<p>Graduated students from the Master have opportunities in various fields, including machine learning engineering, data science, AI research and development, natural language processing, data engineering, deep learning, DevOps for AI/ML, business intelligence analysis, big data analytics, cloud AI solutions architecture, AI product management, and many other fields in the worlds of AI and Data.</p>
Admission Requirements	<p>GPA: Minimum GPA of 60/100 for students from Lebanese University Minimum GPA of 3.2 for students from outside Lebanese University</p> <p>Major: <input checked="" type="checkbox"/> Computer Science <input checked="" type="checkbox"/> Computer and Telecoms Engineering (Faculty of Engineering), Master 1 (Faculty of Technology) or any other equivalent diploma from other universities</p>
Coordinator of Master Program	<p>Pr. Zein Al Abidin Ibrahim (Faculty of Science), Pr. Abed Ellatif Samhat (Faculty of Engineering)</p> <p>Contact information: UL Email address: zein.ibrahim@ul.edu.lb, samhat@ul.edu.lb, rami.tawil@ul.edu.lb</p>

