

CERTIFICATE OF ACHIEVEMENT

Congratulations,

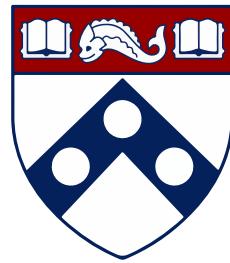
Dihia Lacene

For the successful completion of the INJAZ Al-Arab/PMI/PMIEF Virtual Internship that took place on January 31st, 2024.

— 29/01/2024 —



Leen Naseef Jaber
Executive Director - Injaz El Djazair



Penn
UNIVERSITY *of* PENNSYLVANIA

Sep 16, 2024

Dihia LACENE

has successfully completed

Robotics: Estimation and Learning

an online non-credit course authorized by University of Pennsylvania and offered through
Coursera



A handwritten signature in black ink that reads "Daniel D. Lee".

Daniel Lee

Professor, Electrical and Systems Engineering

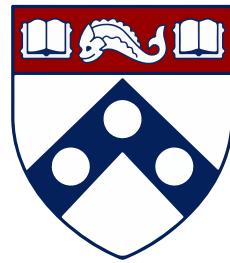
COURSE CERTIFICATE



Verify at:

coursera.org/verify/1YVLDQKJFEEN

Coursera has confirmed the identity of this individual and
their participation in the course.



Penn

UNIVERSITY *of* PENNSYLVANIA

Sep 9, 2024

Dihia LACENE

has successfully completed

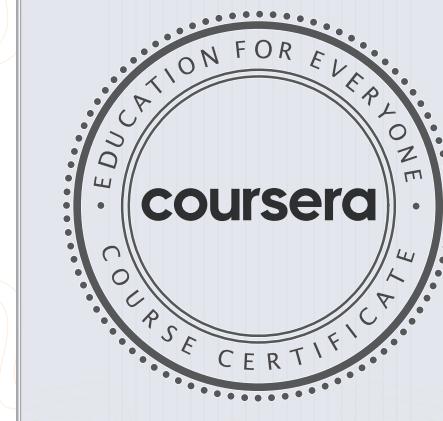
Robotics: Computational Motion Planning

an online non-credit course authorized by University of Pennsylvania and offered through Coursera

A handwritten signature in blue ink that appears to read "CJ Taylor".

CJ Taylor
Professor, Computer and Information Science

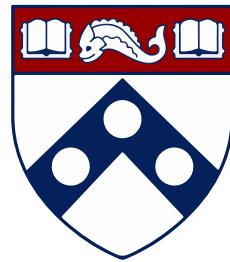
COURSE CERTIFICATE



Verify at:

coursera.org/verify/RWHJDD3VD46I

Coursera has confirmed the identity of this individual and
their participation in the course.



Penn
UNIVERSITY *of* PENNSYLVANIA

Sep 7, 2024

Dihia LACENE

has successfully completed

Robotics: Aerial Robotics

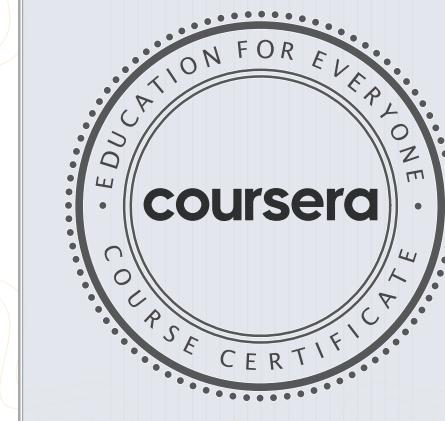
an online non-credit course authorized by University of Pennsylvania and offered through
Coursera



A handwritten signature in blue ink that reads "Vijay Kumar".

Vijay Kumar
Nemirovsky Family Dean of Penn Engineering

COURSE CERTIFICATE



Verify at:
coursera.org/verify/O1NMLJ97MU6K

Coursera has confirmed the identity of this individual and
their participation in the course.



Aug 14, 2025

Dihia LACENE

has successfully completed

Retrieval Augmented Generation (RAG)

an online non-credit course authorized by DeepLearning.AI and offered through Coursera

Zain Hasan

Instructor

COURSE CERTIFICATE



Verify at:
<https://coursera.org/verify/ISXGEICOQTM9>

Coursera has confirmed the identity of this individual and
their participation in the course.



3 Courses

Supervised Machine Learning: Regression and Classification

Advanced Learning Algorithms

Unsupervised Learning, Recommenders, Reinforcement Learning



May 23, 2024

Dihia LACENE

has successfully completed the online, non-credit Specialization

Machine Learning

Congratulations on completing all three courses of the Machine Learning Specialization! You studied modern machine learning concepts, including supervised learning (linear regression, logistic regression, neural networks, decision trees), unsupervised learning (clustering, anomaly detection), recommender systems, and reinforcement learning. You learned some of the best practices for building machine learning models. You've also gained practical skills to apply machine learning techniques to challenging real-world problems. Now #BreakIntoAI and start building your career in machine learning!

A handwritten signature of "Andrew Ng" in black ink.

Andrew Ng, Instructor,
DeepLearning.AI

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Verify this certificate at:
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CERTIFICAT

DE PARTICIPATION

Certificat remis à :

DIHIA LACENE

Qui a participé activement au projet de formation LOG IN, une série de formations sur le Social Media Management, qui s'est déroulé au courant du mois de février au mois de mars 2024.



CHEF DE COMITÉ



CHEF DE COMITÉ



4 Courses

Microcontroller and Industrial Applications

Applied Industrial Internet of Things

AI Principles with Edge Computing

Industrial Applications of AI



Sep 3, 2024

Dihia LACENE

has successfully completed the online, non-credit Specialization

Intelligent Digital Factories

The specialization on IDF offer microcontrollers with hardware and software architectures, programming, debugging strategies and hands-on for Industrial applications. Explores EdSim51 simulator, development boards like ArduinoUNO, ESP8266, ESP32, GSM and Cloud networks with Industry examples. IoT with Industry Solutions - Sewage Treatment Plant, Packaging Industry, Processing of Dairy Products etc., AI Courses offer - Supervised, Unsupervised, Reinforced, Neural Networks etc., along with Edge Computing, Pruning, Tiny ML etc., example Predictions of House Price, EV vehicle, Lung cancer, Fault Diagnosis etc., AI applications in of Engineering in Electrical, Mechanical and Civil domains like monitoring of Substations, Oil and Gas exploration, Construction site safety etc.,

A handwritten signature in black ink that appears to read "Dihia LACENE".

Subject Matter Experts
L&T Edutech

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12 Courses

- [What is Data Science?](#)
- [Tools for Data Science](#)
- [Data Science Methodology](#)
- [Python for Data Science, AI & Development](#)
- [Python Project for Data Science](#)
- [Databases and SQL for Data Science with Python](#)
- [Data Analysis with Python](#)
- [Data Visualization with Python](#)
- [Machine Learning with Python](#)
- [Applied Data Science Capstone](#)
- [Generative AI: Elevate Your Data Science Career](#)
- [Data Scientist Career Guide and Interview Preparation](#)

Sep 5, 2024

Dihia LACENE

has successfully completed the online, non-credit Professional Certificate

IBM Data Science

In this Professional Certificate, learners developed and honed hands-on skills in Data Science and Machine Learning. Learners started with an orientation of Data Science and its Methodology, became familiar and used a variety of data science tools, learned Python and SQL, performed Data Visualization and Analysis, and created Machine Learning models. In the process they completed several labs and assignments on the cloud including a Capstone Project at the end to apply and demonstrate their knowledge and skills.

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Rav Ahuja
AI & Data Science
Program Director
IBM Skills Network

Verify this certificate at:
<https://coursera.org/verify/profession-al-cert/FD0BT53Y07US>

CERTIFICAT

Ce certificat atteste que

Lacene Dihia

a activement participé à la formation de **Graphique design**, organisée par **PLOGGING ASSOCIATION ALGERIA** du 22 décembre à 23 décembre 2023. Le Comité Art et Design tient à vous remercier chaleureusement pour votre précieuse participation.


cheff de comité




Reffouy
formatrice



9 Courses

Foundations of Cybersecurity

Play It Safe: Manage Security Risks

Connect and Protect: Networks and Network Security

Tools of the Trade: Linux and SQL

Assets, Threats, and Vulnerabilities

Sound the Alarm: Detection and Response

Automate Cybersecurity Tasks with Python

Put It to Work: Prepare for Cybersecurity Jobs

Accelerate Your Job Search with AI



Jul 20, 2025

Dihia LACENE

has successfully completed the online, non-credit Professional Certificate

Google Cybersecurity

Those who earn the Google Cybersecurity Certificate have completed eight courses, developed by Google, that include hands-on, practice-based assessments and are designed to prepare them for entry-level roles in cybersecurity. They are competent in beginner-level Python, Linux, SQL, Security Information and Event Management (SIEM) tools, and Intrusion Detection Systems (IDS). They know how to identify common cybersecurity risks, threats, and vulnerabilities, as well as the techniques to mitigate.



Amanda Brophy
Global Director of
Google Career
Certificates

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Verify this certificate at:

<https://coursera.org/verify/profession-al-cert/4CSZ2U6NWYX5>



Certificate of Completion

6 May 2024

Dihia LACENE

has successfully completed

Green Digital Skills

an online non-credit course supported by LinkedIn and offered by INCO Academy.

Hours of study: 24

INCO Academy has confirmed the identity of this individual and their participation in the course. Verify at:





5 Courses

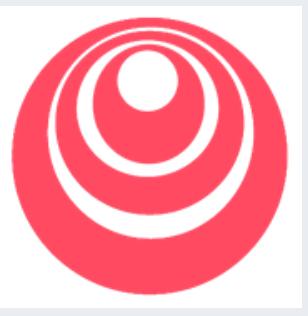
Neural Networks and Deep Learning

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

Structuring Machine Learning Projects

Convolutional Neural Networks

Sequence Models



Jul 11, 2024

Dihia LACENE

has successfully completed the online, non-credit Specialization

Deep Learning

Congratulations! You have completed all 5 courses of the Deep Learning Specialization. In this Specialization, you built neural network architectures such as Convolutional Neural Networks, Recurrent Neural Networks, LSTMs, Transformers, and learned how to make them better with strategies such as Dropout, BatchNorm, and Xavier/He initialization. You mastered these theoretical concepts, learned their industry applications using Python and TensorFlow, and tackled real-world cases such as speech recognition, music synthesis, chatbots, machine translation, natural language processing, and more. You are now familiar with the capabilities and challenges of deep learning. You are ready to take the definitive step in the world of AI and participate in the development of leading-edge technology.

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Andrew Ng,
Founder,
DeepLearning.AI

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Verify this certificate at:

<https://coursera.org/verify/specialization/HD9X3282HQSJ>



4 Courses

Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

Convolutional Neural Networks in TensorFlow

Natural Language Processing in TensorFlow

Sequences, Time Series and Prediction



Aug 7, 2024

Dihia LACENE

has successfully completed the online, non-credit Professional Certificate

DeepLearning.AI TensorFlow Developer

Congratulations! You have completed all 4 courses of the DeepLearning.AI TensorFlow Developer Professional Certificate program. As part of this Professional Certificate program, you have learned: how to build and train neural networks using TensorFlow, how to improve network performance using convolutions as you train it to identify real-world images, how to teach machines to understand, analyze, and respond to human speech with natural language processing systems, and more! These, and other TensorFlow concepts, are going to be at the forefront of the coming transformation to an AI-powered future.

Laurence Moroney

Laurence Moroney
Instructor

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Verify this certificate at:

<https://coursera.org/verify/profession-al-cert/HM4LGBRCRFHO>



4 Courses

Introduction to Data Engineering
Source Systems, Data Ingestion, and Pipelines
Data Storage and Queries
Data Modeling, Transformation, and Serving



Oct 4, 2024

Dihia LACENE

has successfully completed the online, non-credit Professional Certificate

DeepLearning.AI Data Engineering

Congratulations on completing all 4 courses of the Data Engineering Professional Certificate program! As part of this program, you've developed a mental framework for thinking like a data engineer. You learned how to translate stakeholder needs into system requirements, design data architecture that meets those requirements, and build effective data pipelines on the AWS cloud. These skills are critical for building data engineering solutions that provide value to organizations in any industry, and acquiring and deploying them will make you more in-demand as a data engineer. We are thrilled that you chose to learn with us and excited to see your career in data grow!

Joe Reis
Author, Data Engineer,
"Recovering Data
Scientist"

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Verify this certificate at:
<https://coursera.org/verify/profession-al-cert/5VAR4H6M4IAK>



7 Courses

Security Operations Center
(SOC)

Endpoints and Systems

Network Security

Data Security

Threat Analysis

Threat Investigation

Threat Response



Jun 27, 2025

Dihia LACENE

has successfully completed the online, non-credit Specialization

Cybersecurity Operations Fundamentals

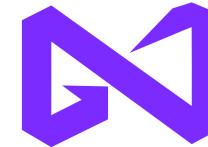
This Specialization teaches learners the fundamental skills, techniques, and technologies to detect and prevent cyber attacks as part of a SOC team and as an entry-level SOC Analyst.

Telethia Willis
Cisco Networking
Academy Learning &
Development
Cisco Systems, Inc.

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Verify this certificate at:

<https://coursera.org/verify/specialization/UNFFCFKIIIR2>



GO PLATFORM
Recruitment | Development

Certificate of Internship

Proudly Presented to

Dihia Lacene

With gratitude, we recognize the vital contributions to the development of our platform as Intern in the **IT department for a duration of 6 months from April 2025 to Present**. Your technical expertise and dedication were instrumental in developing this virtual platform that will enable global access to these culturally significant works.

Mohamed Haithem Medani

COO



Abdellah Aouf

CEO

Algerian Red Crescent



الهلال الأحمر الجزائري

Centre National First Aid Training



T15-0107-23

المركز الوطني للتكوين في الإسعافات الأولية

شهادة تكوين

TRAINING CERTIFICATE

The President of the Algerian Red Crescent certifies that:

تشهد رئيسة الهلال الأحمر الجزائري بأن:

السيد/ة لاسن ديهية

Miss./Mr **LACENE Dihia**

المولود/ة في 2002/07/22 ب تizi وزو

22/07/2002 in Tizi Ouzou

Born on: .

Completed **First aid training**

That took place in Tizi Ouzou from **Décembre, 02 to 03/2023**

قد شارك/ت: في الدورة التكوينية في الإسعافات الأولية

التي أجريت بولاية تizi وزو من 02 الى 03 ديسمبر 2023

الجزائر في: 19/12/2023

Algiers

رئيسة الهلال الأحمر الجزائري

President of the Algerian Red Crescent

الهلال الأحمر الجزائري
4 JAN 2024

Croissant-Rouge Algérien
Centre national de formation en premiers secours



T15-0107-23



ATTESTATION DE FORMATION

Le président du croissant rouge algérien atteste que :

Madame / LACENE Dihia

Née le : 22/07/2002 à Tizi-Ouzou

A suivi une formation aux premiers secours

Qui s'est déroulée à Tizi-Ouzou du 02 au 03 décembre 2023

Valable à l'Etranger
Traduction Conforme à l'Original
Impôts du Timbre perçus au profit du Trésor 2CZD

Alger le : 19/12/2023

Le président du croissant rouge Algérien

Suit griffe portant :

La présidente du croissant rouge Algérien

D. HALLAOUI Ibtisame Kahina

Suit signature illisible Interprète Officielle

Suit cachet rond portant : Ministère de la Justice

Croissant-Rouge Algérien Français - Anglais

Tel: 05 49 26 24 57

Suit timbre portant :

14 janvier 2024



الشركة الجزائرية للكهرباء والغاز-التوزيع

Société algérienne de l'électricité et du gaz - Distribution

Région de Blida

Concessions de Distribution de Tizi Ouzou
Direction de Distribution de Tizi Ouzou

N° ASO DDIOTDR H
Année

09 JAN 2023

Division Ressources Humaines

ATTESTATION DE STAGE

Je soussigne, Monsieur **YAHIA Sadi**, agissant en qualité de Chef de Division des Ressources Humaines, de la Direction de Distribution de l'Electricité et du Gaz de Tizi-Ouzou, atteste que Mademoiselle **LACENE Dihia**, étudiante au niveau de l'Université M'HAMED BOUGARA BOUMERDES, a été autorisée à recueillir les informations nécessaires, afin de préparer son rapport de stage, et ce pour une période d' Un (01) mois allant du **15/06/2022** au **15/07/2022**.

Cette attestation est établie à la demande de l'intéressée, pour servir et valoir ce que de droit.

LE CHEF DE DIVISION RESSOURCES HUMAINE





Certificate of Completion

6 May 2024

Dihia LACENE

has successfully completed

Green Digital Skills

an online non-credit course supported by LinkedIn and offered by INCO Academy.

Hours of study: 24

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CERTIFICAT

DE PARTICIPATION

Certificat remis à :

DIHIA LACENE

Qui a participé activement au projet de formation LOG IN, une série de formations sur le Social Media Management, qui s'est déroulé au courant du mois de février au mois de mars 2024.



CHEF DE COMITÉ



CHEF DE COMITÉ

CERTIFICATE OF ACHIEVEMENT

Congratulations,

Dihia Lacene

For the successful completion of the INJAZ Al-Arab/PMI/PMIEF Virtual Internship that took place on January 31st, 2024.

— 29/01/2024 —



Leen Jaber
Executive Director - Injaz El Djazair



3 Courses

AI and Public Health
AI and Climate Change
AI and Disaster Management



May 25, 2024

Dihia LACENE

has successfully completed the online, non-credit Specialization

AI for Good

Congratulations on completing all three courses of the AI for Good Specialization! You studied the framework used to create and execute successful AI for Good projects, and used case studies in air pollution, climate change, and disaster response to understand how to carry out projects in this field on your own. We're thrilled that you chose to learn with us, and are excited to see your career in AI grow



Robert Monarch, PhD

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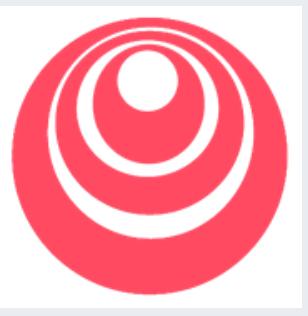


3 Courses

Supervised Machine Learning: Regression and Classification

Advanced Learning Algorithms

Unsupervised Learning, Recommenders, Reinforcement Learning



May 23, 2024

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Machine Learning

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A handwritten signature of "Andrew Ng" in black ink.

Andrew Ng, Instructor,
DeepLearning.AI

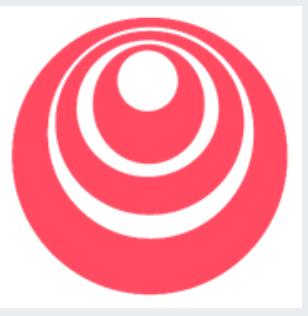
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3 Courses

AI for Medical Diagnosis
AI for Medical Prognosis
AI For Medical Treatment



Jun 14, 2024

Dihia LACENE

has successfully completed the online, non-credit Specialization

AI for Medicine

In this Specialization, you gained practical experience applying machine learning to concrete problems in medicine. You learned how to diagnose chest x-rays and brain scans, evaluate your models, handle missing data, and estimate the effect of treatments. Now you can help transform the practice of medicine worldwide. You can go on to pursue a career in the medical industry as a data scientist, machine learning engineer, innovation officer, or business analyst!

A decorative background graphic featuring a series of thin, wavy lines that curve and flow across the right side of the certificate, resembling a stylized landscape or a network of connections.

PS Rajpurkar

Pranav Rajpurkar, PhD
Candidate at Stanford
University

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5 Courses

Neural Networks and Deep Learning

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

Structuring Machine Learning Projects

Convolutional Neural Networks

Sequence Models



Jul 11, 2024

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Founder,
DeepLearning.AI

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4 Courses

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Natural Language Processing in TensorFlow

Sequences, Time Series and Prediction



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Laurence Moroney

Laurence Moroney
Instructor

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12 Courses

- [What is Data Science?](#)
- [Tools for Data Science](#)
- [Data Science Methodology](#)
- [Python for Data Science, AI & Development](#)
- [Python Project for Data Science](#)
- [Databases and SQL for Data Science with Python](#)
- [Data Analysis with Python](#)
- [Data Visualization with Python](#)
- [Machine Learning with Python](#)
- [Applied Data Science Capstone](#)
- [Generative AI: Elevate Your Data Science Career](#)
- [Data Scientist Career Guide and Interview Preparation](#)

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IBM Data Science

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Rav Ahuja
AI & Data Science
Program Director
IBM Skills Network

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4 Courses

Microcontroller and Industrial Applications

Applied Industrial Internet of Things

AI Principles with Edge Computing

Industrial Applications of AI



Sep 3, 2024

Dihia LACENE

has successfully completed the online, non-credit Specialization

Intelligent Digital Factories

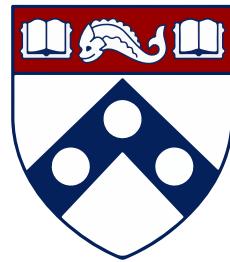
The specialization on IDF offer microcontrollers with hardware and software architectures, programming, debugging strategies and hands-on for Industrial applications. Explores EdSim51 simulator, development boards like ArduinoUNO, ESP8266, ESP32, GSM and Cloud networks with Industry examples. IoT with Industry Solutions - Sewage Treatment Plant, Packaging Industry, Processing of Dairy Products etc., AI Courses offer - Supervised, Unsupervised, Reinforced, Neural Networks etc., along with Edge Computing, Pruning, Tiny ML etc., example Predictions of House Price, EV vehicle, Lung cancer, Fault Diagnosis etc., AI applications in of Engineering in Electrical, Mechanical and Civil domains like monitoring of Substations, Oil and Gas exploration, Construction site safety etc.,

A handwritten signature in black ink that appears to read "Dihia LACENE".

Subject Matter Experts
L&T Edutech

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Verify this certificate at:
<https://coursera.org/verify/specialization/A7U59ZQNC2EE>



Penn
UNIVERSITY *of* PENNSYLVANIA

Sep 7, 2024

Dihia LACENE

has successfully completed

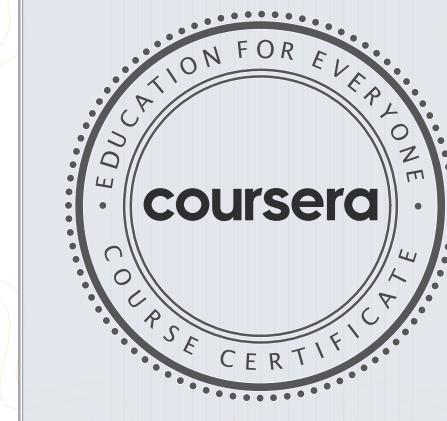
Robotics: Aerial Robotics

an online non-credit course authorized by University of Pennsylvania and offered through Coursera

A handwritten signature in blue ink that reads "Vijay Kumar".

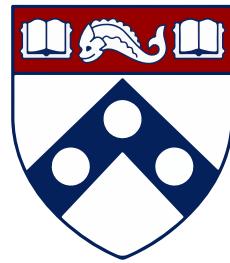
Vijay Kumar
Nemirovsky Family Dean of Penn Engineering

COURSE CERTIFICATE



Verify at:
coursera.org/verify/O1NMLJ97MU6K

Coursera has confirmed the identity of this individual and
their participation in the course.



Penn

UNIVERSITY *of* PENNSYLVANIA

Sep 9, 2024

Dihia LACENE

has successfully completed

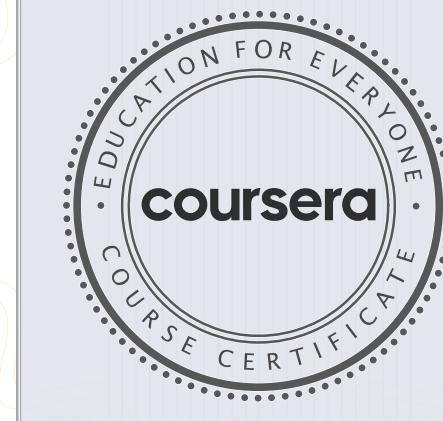
Robotics: Computational Motion Planning

an online non-credit course authorized by University of Pennsylvania and offered through
Coursera

A handwritten signature in blue ink that reads "CJ Taylor".

CJ Taylor
Professor, Computer and Information Science

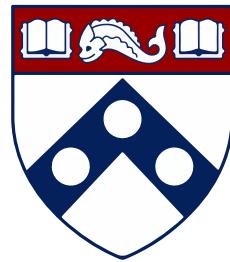
COURSE CERTIFICATE



Verify at:

coursera.org/verify/RWHJDD3VD46I

Coursera has confirmed the identity of this individual and
their participation in the course.



Penn
UNIVERSITY *of* PENNSYLVANIA

Sep 16, 2024

Dihia LACENE

has successfully completed

Robotics: Estimation and Learning

an online non-credit course authorized by University of Pennsylvania and offered through
Coursera



A handwritten signature in black ink that reads "Daniel D. Lee".

Daniel Lee

Professor, Electrical and Systems Engineering

COURSE CERTIFICATE



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coursera.org/verify/1YVLDQKJFEEN

Coursera has confirmed the identity of this individual and
their participation in the course.



4 Courses

Introduction to Data Engineering
Source Systems, Data Ingestion, and Pipelines
Data Storage and Queries
Data Modeling, Transformation, and Serving



Oct 4, 2024

Dihia LACENE

has successfully completed the online, non-credit Professional Certificate

DeepLearning.AI Data Engineering

Congratulations on completing all 4 courses of the Data Engineering Professional Certificate program! As part of this program, you've developed a mental framework for thinking like a data engineer. You learned how to translate stakeholder needs into system requirements, design data architecture that meets those requirements, and build effective data pipelines on the AWS cloud. These skills are critical for building data engineering solutions that provide value to organizations in any industry, and acquiring and deploying them will make you more in-demand as a data engineer. We are thrilled that you chose to learn with us and excited to see your career in data grow!

Joe Reis
Author, Data Engineer,
"Recovering Data
Scientist"

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Verify this certificate at:
<https://coursera.org/verify/profession-al-cert/5VAR4H6M4IAK>

CERTIFICAT

Ce certificat atteste que

Lacene Dihia

a activement participé à la formation de **Graphique design**, organisée par **PLOGGING ASSOCIATION ALGERIA** du 22 décembre à 23 décembre 2023. Le Comité Art et Design tient à vous remercier chaleureusement pour votre précieuse participation.


cheff de comité




Reffouy
formatrice



الشركة الجزائرية للكهرباء والغاز-التوزيع

Société algérienne de l'électricité et du gaz - Distribution

Région de Blida

Concessions de Distribution de Tizi Ouzou
Direction de Distribution de Tizi Ouzou

N°ASO DDIOTDR H
Année

09 JAN 2023

Division Ressources Humaines

ATTESTATION DE STAGE

Je soussigne, Monsieur **YAHIA Sadi**, agissant en qualité de Chef de Division des Ressources Humaines, de la Direction de Distribution de l'Electricité et du Gaz de Tizi-Ouzou, atteste que Mademoiselle **LACENE Dihia**, étudiante au niveau de l'Université M'HAMED BOUGARA BOUMERDES, a été autorisée à recueillir les informations nécessaires, afin de préparer son rapport de stage, et ce pour une période d' Un (01) mois allant du **15/06/2022** au **15/07/2022**.

Cette attestation est établie à la demande de l'intéressée, pour servir et valoir ce que de droit.

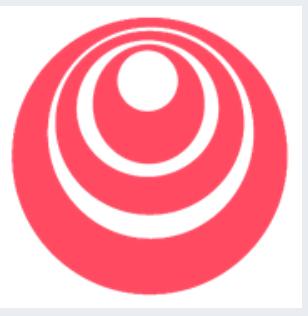
LE CHEF DE DIVISION RESSOURCES HUMAINE





3 Courses

AI for Medical Diagnosis
AI for Medical Prognosis
AI For Medical Treatment



Jun 14, 2024

Dihia LACENE

has successfully completed the online, non-credit Specialization

AI for Medicine

In this Specialization, you gained practical experience applying machine learning to concrete problems in medicine. You learned how to diagnose chest x-rays and brain scans, evaluate your models, handle missing data, and estimate the effect of treatments. Now you can help transform the practice of medicine worldwide. You can go on to pursue a career in the medical industry as a data scientist, machine learning engineer, innovation officer, or business analyst!

A decorative background graphic featuring a series of thin, wavy, light-gray lines that curve and flow across the right side of the certificate.

Pranav Rajpurkar
Pranav Rajpurkar, PhD
Candidate at Stanford
University

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Verify this certificate at:
<https://coursera.org/verify/specialization/XLA7TN3XPZ5R>



3 Courses

AI and Public Health
AI and Climate Change
AI and Disaster Management



May 25, 2024

Dihia LACENE

has successfully completed the online, non-credit Specialization

AI for Good

Congratulations on completing all three courses of the AI for Good Specialization! You studied the framework used to create and execute successful AI for Good projects, and used case studies in air pollution, climate change, and disaster response to understand how to carry out projects in this field on your own. We're thrilled that you chose to learn with us, and are excited to see your career in AI grow



Robert Monarch, PhD

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Verify this certificate at:

<https://coursera.org/verify/specialization/N6JQ3XHQLWLR>