

Education

2015 – 2020 **Communication and Information Engineering**, Zewail City of Science and Technology, Cairo, GPA 3.45/4

Relevant Courses: Machine Learning, AI, Big Data, Computer Vision, Neural Networks and Deep Learning, Speech Analysis, Synthesis, and Recognition, Software Engineering, Information Security and Encryption.

Certifications

Januray 2024 **Cloudera Data Analyst Certification, CDP-4001**

Successfully passed the Cloudera Data Analyst Exam, demonstrating proficiency in data analysis techniques and tools on Cloudera's platform.

Honors and Awards

2024 Ranked in the top 1% machine learning engineer freelancers by Upwork globally.

2021-2023 Received \$70,000 grant for research project.

2020 Secured \$2000 competitive fund from ASRT for Graduation Project

2019 Recognized by Udacity as the Mentor of the Month globally for October 2019

2015 – 2020 Received Merit-Based Scholarship covering 100% of tuition fees at Zewail City of Science and Technology

Employment

April 2023 – **Giza Systems, Senior Data Scientist, Cairo**

- Ongoing
- Leading R&D for bilingual Chatbots and Ticket Classification application.
 - Building Advanced Analytics product that utilizes Machine Learning for real-time forecasting and clustering of time series data fed from smart industrial cities.
 - Contributing to AutoML engine for algorithm optimization and feature selection.
 - Ensuring software quality, including testing and deployment.
 - Teaching and Mentoring data science interns for software best practices.

December 2021 **AI Research Assistant, Zewail City of Science and Technology, Cairo**

- March 2023
- Led STDF-funded video analytics project for campus security.
 - Developed deep learning activity recognition models.
 - Implemented tampering detection and unified system.
 - Mentored eight undergraduate interns.

September 2020 **Teaching Assistant, Zewail City of Science and Technology, Cairo**

- May 2023
- Taught students core Machine Learning Algorithms and frameworks.
 - Revamped the syllabus for Speech Analysis course.
 - Supervised 10 teams in Arabic speech recognition projects.
 - Conducted practical labs on Big Data Analytics tools.

- April 2019 – **AI Mentor and Project Reviewer, Udacity, Remote**
 Ongoing ○ Offered technical support to 1,000+ international students.
 ○ Conducted weekly video calls for performance assessment and queries.
 ○ Reviewed and provided feedback on 1,600+ technical projects' submissions.
- March 2019 – **Machine Learning Freelancer, Upwork, Remote**
 Ongoing ○ Completed over 52 Machine and Deep learning projects.
 ○ Logged over 1,800 hours on hourly projects.
 ○ Maintained a 100% job success rate and a five-star rating.
- December 2021 – April 2022 **Freelancing Consultant, Information Technology Institute (ITI), Remote**
 ○ Offered freelancing sessions to AI-Pro program graduates.
 ○ Assisted graduates in securing their first freelancing jobs on various platforms.
- September 2020 – March 2022 **Freelancing Guru, Udacity & Egyptian Government (MCIT), Remote**
 ○ Supported FWD initiative's top students.
 ○ Conducted monthly application screening based on CVs and profiles.
 ○ Managed LinkedIn marketing campaigns for new tracks.
- July 2019 – March 2020 **Data Scientist Intern, World Food Programme United Nations, Regional Bureau of Cairo**
 ○ Streamlined and decentralized data analysis processes across the Regional Bureau of Cairo.
 ○ Delivered a Python-based offline analytics app to the Yemen country office.
 ○ Developed key tools for Tajikistan, including an analytical tool and data mining solution.
 ○ Led innovative AI project for tree detection, collaborated on price trend analysis, and provided Tableau support and R programming training.

Notable Work

- Graduation Project (2019 - 2020) ○ Created an AI mobile app aiding visually impaired individuals in various classification tasks which are Egyptian banknote, food, color, and clothes. In addition, it is able to perform OCR to read texts such as prescriptions.
 ○ Deployed the app using Kubernetes, Firebase, and Google Cloud.
- Udemy online courses ○ Published 2 courses on Python, Data Science, and Machine Learning.
 ○ Enrolled over 184,000 students with an average rating of 4.5/5 from over 5,000 reviews.

Technical and Personal skills

- Programming Languages Python, MATLAB, MySQL, R, C#, C++
- Data Management Apache Kafka, Apache AirFlow, MLFlow
- Deep Learning Development OpenCV, Keras, TensorFlow, PyTorch, NLTK
- Deployment Django Framework, Django RESTful, Docker
- Big Data Hadoop, Spark, Impala, Kudu, Hive, Cloudera Data Platform
- Version Control GitHub, Azure DevOps
- Personal Skills Technical Writing, Team Player, Academic Writing, Team Leadership

Tests and Scores

IELTS Listening: 8.5, Reading: 9, Writing: 6.5, Speaking: 7.5 Overall Score: 8

Volunteering and Extra Work

2018 Junior Teaching Assistant at Zewail City of Science and Technology

2013 – 2016 Active Member, Resala Charity Organization. Participated in community service and development activities.

2015 – 2020 Member, IEEE Student Chapter. Engaged in organizing technical workshops and seminars.

2016 – 2018 Member, Enactus. Involved in entrepreneurial projects focusing on social impact.

2017 – 2019 Member, Student Union. Contributed to student welfare initiatives and event organization.

References

Available upon request.