{

"personal\_info": {

"name": "Mohamed Elgazar",

"email": "melgazar725@gmail.com",

"phone": "+971 507557673",

"linkedin": "https://www.linkedin.com/in/melgazar24/",

"github": "https://github.com/elgazar24",

"location": "Dubai, United Arab Emirates",

"image": ""

},

"sections": {

"objective": true,

"experience": true,

"education": true,

"short\_education": false,

"projects": true,

"languages": true,

"technologies": true

},

"content": {

"objective": "Mechatronics Engineer with a strong focus on AI and data science, bringing hands-on experience in Python, C++, SQL, and machine learning. Passionate about transforming complex data into meaningful insights through statistical modeling, predictive algorithms, and data visualization. Adept at tackling real-world challenges with AIdriven solutions, collaborating effectively in team environments, and managing projects with a proactive and analytical mindset. Committed to continuous learning and staying at the forefront of technological advancements.",

"education": [

{

"degree": "Bachelor of Mechatronics Engineering",

"university": "Mansoura University",

"startDate": "Sept 2020",

"endDate": "Sept 2024",

"gpa": "3.4/4.0",

"certificate": "N\\A",

"coursework": "Mechanics, Machine Learning, Embedded systems, Robotics, Linear algebra, Statistics, Artificial intelligence"

},

{

"degree": "Associate Data Scientist in Python - Career track",

"university": "DataCamp",

"startDate": "Dec 2024",

"endDate": "Apr 2025",

"gpa": "Completed",

"certificate": "N\\A",

"coursework": "Python , SQL , Data Manipulation , Machine Learning , Statistics , Data Visualization"

},

{

"degree": "Associate Data Analyst in SQL - Career track",

"university": "DataCamp",

"startDate": "Dec 2024",

"endDate": "Apr 2025",

"gpa": "Completed",

"certificate": "N\\A",

"coursework": "Python , SQL , Data Manipulation , Data Analysis , Data Visualization , Data Communication"

},

{

"degree": "Advanced Learning Algorithms",

"university": "DeepLearning.AI and Stanford University",

"startDate": "Jan 2025",

"endDate": "Mar 2025",

"gpa": "Completed",

"certificate": "https://coursera.org/verify/OMHULMAU912D",

"coursework": "Neural Networks, TensorFlow, Machine learning , Decision trees , Linear algebra , Statistics , Artificial intelligence"

},

{

"degree": "Supervised Machine Learning: Regression and Classification",

"university": "DeepLearning.AI and Stanford University",

"startDate": "Jan 2025",

"endDate": "Mar 2025",

"gpa": "Completed",

"certificate": "https://coursera.org/verify/968W8PWXYICQ",

"coursework": "Python ,Supervised Learning, NumPy , scikit-learn, Machine learning , Gradient Descent"

},

{

"degree": "Embedded Systems Professional Nanodegree",

"university": "Udacity - Egypt FWD",

"gpa": "Completed",

"startDate": "Sept 2022",

"endDate": "Dec 2022",

"certificate": "https://drive.google.com/file/d/1qg4IM\_zmd8Wyk5V9Xo05Ln9YCU90FEMU/view?usp=share\_link",

"coursework": "Embedded Systems, AUTOSAR , Automotive , Automotive Communication protocols , Agaile , AVR and ARM microcontrollers"

},

{

"degree": "Mobile App Development with Flutter and Dart (iOS and Android)",

"university": "Udemy",

"gpa": "Completed",

"startDate": "Sept 2022",

"endDate": "Dec 2022",

"certificate": "https://drive.google.com/file/d/1OS7PaMNY60JfVdPekjzfrgR3BLOvw8YX/view?usp=sharing",

"coursework": "Dart, state management, BLoC, Provider, authentication, Google’s Machine Learning Models"

}

],

"short\_education": [

{

"issuer": "Udemy",

"certificates": [

"Mastering RTOS and Embedded Linux",

"Mobile App Development with Flutter"

]

}

],

"experience": [

{

"role": "AI Training Contributor",

"company": "Outlier.ai – https://www.dataannotation.tech/",

"location": "Remote",

"startDate": "Jan 2025",

"endDate": "Present",

"responsibilities": [

"Collaborated on the development and evaluation of generative AI models.",

"Created and reviewed data to improve model accuracy and contextual understanding.",

"Applied domain expertise in computer science and programming to refine AI behavior."

]

},

{

"role": "Computer Science Instructor",

"company": "Roboto Academy",

"location": "Egypt",

"startDate": "Oct 2024",

"endDate": "Apr 2025",

"responsibilities": [

"Designed and delivered robotics and computer science curricula.",

"Taught advanced programming and AI concepts to students.",

"Fostered a hands-on learning environment with robotics kits and software tools."

]

},

{

"role": "Mechatronics Engineer Trainee",

"company": "North Delta Electricity Distribution Co.",

"location": "Egypt",

"startDate": "July 2024",

"endDate": "Sept 2024",

"responsibilities": [

"Acquired knowledge of power distribution systems and substation components.",

"Assisted in the maintenance and troubleshooting of transformers and circuit breakers.",

"Developed basic understanding of SCADA systems used in electricity distribution.",

"Observed load balancing and fault analysis in medium and low voltage networks.",

"Collaborated with engineers on preventive maintenance and system upgrades."

]

},

{

"role": "Embedded Software Engineer Intern",

"company": "Siemens - Eitesal",

"location": "Egypt",

"startDate": "June 2023",

"endDate": "Jan 2024",

"responsibilities": [

"Gained practical experience in microcontroller interfacing and automotive communication protocols.",

"Learned AUTOSAR software architecture and MISRA-C standards.",

"Developed real-time firmware for ARM and AVR microcontrollers.",

"Worked with a team of developers to develop an embedded system project.",

"Gained hands-on experience with microcontroller-based systems and Real-Time Operating Systems."

]

},

{

"role": "Mechatronics Engineer Trainee",

"company": "DCHC (Damietta Container and Cargo Handling Co.)",

"location": "Egypt",

"startDate": "July 2023",

"endDate": "Oct 2023",

"responsibilities": [

"Learned troubleshooting techniques for air, fuel, lubrication, and cooling systems.",

"Applied knowledge of PLC systems and industrial automation controls.",

"Worked with inverters, switchgear, and spreader control systems.",

"Understood the control circuit design of port tractor systems."

]

},

{

"role": "Vice Leader and Head of Technical Committees",

"company": "Mansoura Robotics Club",

"location": "Egypt",

"startDate": "May 2022",

"endDate": "Jan 2024",

"responsibilities": [

"Led technical teams in designing and building robotics projects using embedded systems.",

"Managed the integration of hardware and software solutions for robotics competitions",

"Provided technical mentorship on programming languages, including C, C++, and Python",

"Facilitated hands-on learning and problem-solving sessions for members.",

"Organized and led workshops on robotics, AI, and embedded systems."

]

}

],

"projects": [

{

"title": "Student Performance Prediction Using Multiple Variables",

"github\_link": "https://github.com/elgazar24/Student-Performance-Prediction-Using-Multiple-Variables.git",

"responsibilities": []

},

{

"title": "House Price Prediction Using One Variable",

"github\_link": "https://github.com/elgazar24/House-Price-Prediction-Using-One-Variable.git",

"responsibilities": [

"Built a machine learning model to predict house prices based on a single variable.",

"Preprocess the dataset for training and testing the prediction model.",

"Using Python and libraries such as Pandas and NumPy for data analysis and model development.",

"Regression techniques are used to optimize the model for an accurate price prediction.",

"Tools used: Python, Pandas, NumPy, Matplotlib."

]

},

{

"title": "Advanced Exploration Robot",

"github\_link": "https://github.com/melgazar24/",

"responsibilities": [

"Developed a pipe exploration robot using the Raspberry Pi.",

"Using Python to program the Raspberry Pi to collect data from sensors ( Camera, Ultrasonic, etc.).",

"Tools used: C++ , Python, Raspberry Pi , NodeJs , STM32 MCU , Linux and OpenCV."

]

},

{

"title": "AVR and ARM Drivers",

"github\_link": "https://github.com/melgazar24/",

"responsibilities": [

"Write drivers code for peripherals such as GPIO, GPT , SPI, I2C, and ADC.",

"Developed projects using ARM Cortex-M3 based STM32 microcontrollers.",

"Tools Used: C, .C++, STM32CubeMX , XC8 , Segger debugger"

]

}

],

"languages": [

"C++",

"C",

"Python",

"SQL",

"Dart",

"HTML",

"CSS",

"JavaScript"

],

"technologies": [

"OpenCV",

"TensorFlow",

"Pandas",

"NumPy",

"scikit-learn",

"Jupyter Notebook",

"Data Visualization",

"AI/ML Frameworks",

"Linux",

"RTOS",

"VS Code",

"XCode",

"ARM",

"AVR",

"Flutter",

"Git",

"GitHub"

]

}

}