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| CONTACT  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   * Saudia Arabia (Open to Remote) * +966 549800930 * [**mazqoty.01@gmail.com**](mailto:email@resumeworded.com) * [**linkedin.com/in/m-mazhar-121133269**](https://www.linkedin.com/in/m-mazhar-121133269/) * [**github.com/mm-mazhar/mazhar**](https://github.com/mm-mazhar/mazhar) * [**mmazhar.onrender.com**](https://mmazhar.onrender.com/) **(Portfolio)**   **SKILLS**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Languages**  *Python,*  *JavaScript-* Novice  **Frameworks**  TensorFlow, PyTorch, Scikit-Learn, OpenCV  **Data Visualization**  PowerBI, Plotly  **Databases**  *MySQL, PostgreSQL, Redis, Firebase*  **Scraping**  *Selenium, Beautiful Soup*  **Web Frameworks**  *FastAPI, Flask*  **Markup Language**  *HTML*  **Design Language**  *CSS*  **Projects**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   * **End-to-End Regression Model Pipeline**   *From Data Scraping to Deployment: Using PyPI Model Packaging, Fast API, Docker with CI/CD Integration*   * **ANPR with EasyOCR**   *Automatically Number Plate Recognition (ANPR) from given images, webcam, and videos by using transfer learning from Pre-Trained Model SSD MobileNet v2 from TF Model Zoo.*  For More Please Visit:  [**https://mmazhar.onrender.com**](https://mmazhar.onrender.com) |

**Muhammad Mazhar**

*Data Scientist | Machine Learning | AI Engineer*

With a solid foundation built over many years in Electronics Engineering, I am now an aspiring Data Scientist, Machine Learning, and AI Engineer. My expertise spans deep analytical capabilities, computer science modeling, and proficiency in Python, TensorFlow, PyTorch, and other data-driven tools. I’ve successfully applied these skills in impactful projects. Holding both an MBA and a Bachelor's in Electronics Engineering, I am eager to leverage data to drive business insights and innovation in my new career path.

**WORK EXPERIENCE**

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**ML Engineer | Omdena Inc. | May 2024 – Present**

**Omdena-Innovation Challenges**

[Soil Nutrient Prediction for Enhanced Fertilizer Recommendations](https://www.omdena.com/projects/soil-nutrient-prediction-for-enhanced-fertilizer-recommendations)

EDA, Modeling for SOC, Boron, Zn, API Development in FastAPI, Streamlit App for PoC.

[3D Roof Reconstruction with CV for Solar Energy Optimization](https://www.omdena.com/projects/3d-roof-reconstruction-with-computer-vision-for-solar-energy-optimization)

Contributed to 3D reconstruction model development, which includes PointNet Segmentation Model Implementation to identify roof tops.

**Omdena-Local Chapter Challenges**

[Identifying Potential Areas for Urban Agriculture in Milan, Italy](https://www.omdena.com/chapter-challenges/identifying-potential-areas-for-urban-agriculture-in-milan-italy)

Contributed mainly in task 1 of the Omdena challenge, which includes data collection from Google Earth Engine, EDA and visualization, unsupervised modeling and web app development.

**Electronics Engineer (R&D) | MK Electronics | 2003 - Present**

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🔹 Design and Development of industrial control & automated systems by using micro-controllers, PLCs.  
🔹 Designing also includes PCB Layouts (using PC based CAD systems).  
🔹 Programming microcontrollers.  
🔹 Product testing and manufacturing.  
🔹 Estimation, preparation of technical documents.  
🔹 Service and Repair control systems.  
  
𝗞𝗲𝘆 𝗔𝗰𝗰𝗼𝗺𝗽𝗹𝗶𝘀𝗵𝗺𝗲𝗻𝘁𝘀  
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🔹 Successfully designed, developed, Installed and Commissioned ‘Load Shedding Module for a renowned client.  
🔹 Successfully designed and developed ‘Programmable 4-20mA Indicator and Controller for a client.  
🔹 Other projects including ‘Tower Light Monitoring Unit’, ‘Sequence Controllers’.

**EDUCATION**

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**MBA in Business Administration – May 2008**

The University of Northampton, England

**Bachelor of Engineering (Electronics) – Jan 2002**

NED University of Engineering and Technology, Karachi, Pakistan

**Udemy**

Several Udemy courses on Python, Data Science, ML/DL, Power BI, Computer Vision, FastAPI, Databases etc.