# Mohamed Khaled Saad

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## Objective

Motivated AI and Computer Vision enthusiast with academic and project-based experience in deep learning, image classification, and model optimization. Eager to grow in a dynamic team and apply AI to impactful visual applications.

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## Experience

**Computer Vision Trainee, National Telecommunication Institute**      **July 2025 – August 2025, Remote**
- how to use deep Learning and computer vision algorithms to automate and perform any task or data-defined patterns.
- Introduce the major ideas, methods, and techniques of computer vision and pattern recognition. Develop different appreciations for various issues in the design of computer vision and object recognition systems based on deep learning techniques.

**HCIA-Artificial Intelligence 3.5, National Telecommunication Institute**      **June 2025- July 2025, on site**

-Completed an 80-hour Artificial Intelligence course by Huawei Academy, covering Python programming, mathematics for AI, data analysis, machine learning, and deep learning.
- Acquired hands-on experience with AI development frameworks, Huawei AI platforms, and an introduction to quantum computing and cutting-edge AI applications.
- Able to design AI solutions using Huawei development tools and apply foundational knowledge of quantum computing in AI contexts.

**Artificial intelligence, Zewail University (Impact)**                 **July 2023 – October 2023, Hybrid**

-Introduction about Artificial intelligence and it's Applications, Python Programming, Overview about Machine learning, Deep learning and Neural Network.
- Explore some Machine learning Models and it's benefit in Multiple Industries.

**Mathematics for machine learning and data science**                          **Self-Paced**
- A deep understanding of the math that makes machine learning algorithms work.
- Express certain types of matrix operations as linear transformation and apply concepts of eigenvalues and eigenvectors to machine learning problems.
- Statistical techniques that empower you to get more out of your data analysis.

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## Education
**Bachelor of Engineering - Intelligent Systems, Helwan National University**          **September 2022 – February 2026**

## Projects

**Disease Prediction:**
-Built an AI-based Disease Prediction system that identifies probable illnesses based on user-input symptoms
 -Handled 40 different disease categories based on user input with Dataset include 3,000+ Rows.
-Implemented the solution using a Support Vector Machine (SVM) model for accurate multi-disease classification and have Accuracy 96%.

**Brain Stroke Detection:**

-Developed a brain stroke classification model using ResNet50 to detect and classify CT images into Normal, Bleeding, or Ischemia categories and have an accuracy 97%.
-Automated classification into 3 stroke types, reducing doctor review time by 50%.
-Improved diagnostic speed and accuracy to assist doctors in early detection and treatment planning.

**Brain Tumor:**

-Built a U-Net-based deep learning model from scratch for brain tumor segmentation on medical images.
- Achieved a Dice Coefficient of 82%, demonstrating high accuracy in identifying tumor regions.
- Applied advanced image preprocessing and training techniques to enhance model performance in medical diagnostics.
-Trained model on 6,000+ medical slices for improved generalization.

**-Hospital Management System:**

-Developed a full-stack Hospital Management System as both a web and desktop application to enhance communication between doctors and patients.
- Integrated dual platforms (web + desktop) increasing system flexibility by 60%.
-Enabled 100% access to patients' medical history and prescriptions online.
- Reduced appointment booking time by 40% through automation.

## Skills

**Technical Skills:**

- Programming Languages: Python, C++, Java
- Machine Learning: Supervised & Unsupervised Learning, SVM, Decision Trees
- Deep Learning: CNN, U-Net, ResNet50, Transfer Learning
- Frameworks & Libraries: TensorFlow, Keras, PyTorch, OpenCV, Scikit-learn
- Data Science: Pandas, NumPy, Matplotlib, Seaborn, EDA, Data Cleaning
- Web & Tools: Flask, Streamlit, Git, GitHub, Jupyter Notebook, Google Colab
- Computer Vision: Image Classification, Segmentation, Object Detection • Databases: MySQL, SQLite

**-Soft Skills:**

- Problem Solving                   - Time Management
- Communication Skills         - Teamwork
- Adaptability