

# Mahmoud Tolba

---

[mahmuudtolba@gmail.com](mailto:mahmuudtolba@gmail.com) | +201018027142 | Mansoura - Egypt  
[LinkedIn](#) | [GitHub](#) | [Kaggle](#) | [Youtube](#)

---

## EDUCATION

---

Faculty of Electronics and Communications Engineering - Mansoura University

Sep 2018 – Aug 2023

### Courses:

[Deep Learning Specialization](#)  
[Mathematics for Machine Learning: Linear Algebra](#)  
[Mathematics for Machine Learning: Multivariate Calculus](#)

## SKILLS

---

**Programming Languages :** Python , HTML/CSS , JavaScript

**Tools/Platforms:** Google Collab, Jupyter

**Soft Skills:** Communication Skills , Public Speaking and Presentation Skills, Leadership

**Operating systems :** ubuntu , windows

## PROJECTS

---

### Machine Translation using RNN-Encoder-Decoder with attention

spacy, torch, datasets , Numpy

- Machine translation German to English with loss of 3.79

### MaskedBlur-Instance-Segmentation-for-Human-Privacy

sklearn , numpy , torchvision

- Accurately identifies and isolates individual instances of human subjects within a given visual scene with loss of 0.20

### Emotion-Classification using text

transformers, numpy , torch, seaborn

- Classifying emotion based on text using distilbert transformer using hugging face with accuracy of 93.9%

### Detecting which pixels indicates Brain Tumor

torch, numpy , matplotlib

- Building Custom models and extracting Feature Maps to understand what makes predictions with accuracy of 94.1 %

### Action recognition with python (graduation project)

opencv,mediapipe , tensorflow ,sklearn

- Collecting data to preparing the bag task and Training LSTM model

### Car Detection Using Faster R-CNN

pytorch, numpy, pandas

- The dataset contains media of cars in all views , and we target to detect them with loss Loss: 0.157

## Accomplishments

---

- Created a playlist on YouTube explaining ML algorithms from scratch like
  - Linear regression - logistic regression - KNN - SVM - Decision tree - Random Forest - Gradient boosting classifier
- Won the 2nd place at Egypt iot and Ai for graduation projects
- Notebook master at kaggle

## Personal Information

---

- Military status: Ends at 1/6/2025
- Languages: Arabic and English