

Sondos Amr

Data Scientist & Data Analyst

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🌐 [Sondos Amr | Portfolio](#)

EDUCATION

Fayoum University

Bachelor of Engineering – Computer and Systems Engineering

- GPA: B+

2020 – 2025

Fayoum, Egypt

INTERNSHIPS

Samsung Innovation Campus

AI Intern

- Completed intensive AI training focused on **machine learning**, **deep learning**, and **big data**, with real-world applications and model deployment.
- Enhanced **Python** skills by implementing supervised and unsupervised algorithms using **NumPy**, **Pandas**, **Scikit-learn**, and **TensorFlow**.
- Built interactive dashboards with **Power BI** to visualize model insights and key performance metrics.
- Worked on projects involving data preprocessing, feature engineering, model training, and performance evaluation.

Jul 2024 – Oct 2024

Cairo, Egypt

DataCamp

Data Science course

- Learned key data science tools and concepts including **Python**, **Pandas**, **NumPy**, and **data visualization** libraries such as **Matplotlib** and **Seaborn**, along with **Scikit-learn** for machine learning.
- Built a project analyzing Google Play Store data: cleaned, visualized, and extracted insights from app market datasets.

Aug 2022 – oct 2022

Remote

Experience

Arabic System Management App

Personal Project – Python Desktop App

March 2025 – May 2025

- Built a Python desktop application to automate the creation of personalized Arabic educational booklets using Excel and Word templates, converting them to secure high-resolution PDFs and uploading them to Google Drive.
- Integrated WhatsApp automation to send personalized messages with Drive links, and used multithreading to optimize processing time.

Educational Content Developer – Children's Programming

Self-initiated Project

March 2025 – April 2025

- Created programming materials and interactive tutorials for kids using Scratch, mBlock, Python, HTML, and CSS.
- Designed classroom-ready examples, animations, and games focused on engagement and clarity for young learners.

PROJECTS

BEAR – Bone Estimation and Age Reporting

Graduation Project – Deep Learning for Medical Imaging

[Repo](#)

- An AI system that predicts pediatric bone age from hand X-ray images using CNNs, and generates automatic diagnostic reports.
- Tools & Tech: **Python**, **TensorFlow**, **Keras**, **CNNs (VGG19, ResNet, ViT)**, **Transfer Learning**, **OpenCV**, **Google Colab**, **Firestore**.
- Led the **deep learning pipeline** for bone age estimation from X-ray images using CNNs, achieving high accuracy on medical datasets.
- Received **Excellent** grade and ranked **1st in Project Documentation** by the faculty.

Skin Care AI Melanoma Detection using Deep Learning

[Drive](#)

- Tools & Tech: **Python**, **EDA**, **TensorFlow**, **Keras**, **XGBoost**, **ResNet**, **EfficientNet**, **Git**, **Google Colab**, **Kaggle**, **Google Drive**.
- Merged datasets to address class imbalance, applied image preprocessing (e.g., hair removal), and trained multiple models.

Loan Approval Prediction using Machine Learning

[Kaggle](#)

- Tools & Tech: **Python**, **EDA**, **Logistic Regression**, **Random Forest**, **XGBoost**, **Jupyter Notebook**, **Google Colab**, **Kaggle**, **Looker studio**, **Power BI**.
- Predicted loan approvals using applicant data with preprocessing and feature selection.
- Built interactive dashboards in Looker Studio and Power BI.

ACHIEVEMENTS

Nasa Space Apps Hackathon

Winner

Oct 2024

Cairo, Egypt

- Preprocessed seismic data for earthquake analysis — project ranked among the top 10 winners.

ACTIVITIES

Enactus

PR Member

Feb 2021 – May 2022

Fayoum, Egypt

- Organized student events and developed key soft skills.

TECHNICAL SKILLS

Programming: Python Code | C++ Code | OOP | Java | Data Structures | Problem-solving | Git & GitHub | Angular | React | Node.js | JavaScript | HTML | CSS

Machine learning: TensorFlow | PyTorch | ML algorithms | Analytical statistics | Linear algebra | Data processing | Image processing | Computer vision | CNNs | Object detection | GAN | ViTs | Transformers | LSTM | Pandas | NumPy | Scikit-Learn | Keras

Data Analytics: Excel | Power BI | Reports and dashboards | Looker Studio | Data visualization | MySQL | Databases

Soft Skills: Planning | Management | Public relations | Teamwork | Analytics challenges

Languages

Arabic — Native language

English — Very good