Abdelrahman EL-Sherif

Junior Data Scientist

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Education

Bachelor's in Computer Science in SIM Department | Faculty Of Science | Alexandria University

Professional experience

- **Business Developer** at BB   May 2025-present
- **Operational Manager** at Revelio   Jun 2025-present
- **AI Internship Program** at Mentorness.   May 2024 – Jun 2024
- **Data Science Internship Program** at PlacementDost.   May 2024 – Jun 2024
- **Data Science Internship Program** at CodeAlpha.   Apr 2024 – Jun 2024

Skills

Hard Skills (Technologies) :

- **Programming languages:** Python, R, SQL

- **Machine Learning & AI Tools:** Regression,Decision making,SVM, Logistics, Classification, K-Means, KNN

- **Data Visualization Tools:** Matplotlib, Seaborn, Tableau, Power BI, Looker Studio, Excel

- **Data Analysis & Tools:** Pandas, NumPy, Excel, Power Query, SAS, Plotly

- **Deep Learning:** NLTK, SpaCy, CNN, LSTMs, RNN, TensorFlow, Keras

- **Database Management:** SQL Server, Oracle, MongoDB, Firebase, DynamoDB

- **General:** Cloud, Data Modeling & Mining, Statistics, Probability

Soft Skills:

- Strong problem-solving and critical thinking abilities

- Excellent communication and presentation skills

- Team collaboration and leadership experience

- Effective multitasking and time management

- Analytical mindset with attention to detail

Projects Highlights

Leaf Disease Detection
(Deep Learning – Data Preprocessing – Model Evaluation – Visualization)

- Developed a convolutional neural network (CNN) model to classify **over 100,000 plant leaf images** into **38 categories** of diseases and healthy leaves.
- Achieved **97.8% training accuracy** and **94.6% validation accuracy**, significantly reducing misclassification rates.
- Utilized TensorFlow for image preprocessing, model building, and optimization, incorporating dropout layers to mitigate overfitting.
- Visualized model performance through training and validation accuracy plots and confusion matrices.

Feature Engineering for Predictive Maintenance
(Feature Engineering – Data Cleaning – Model Evaluation – Cross-Validation)

- Engineered advanced features, such as lag variables, rolling statistics, and cumulative metrics, to enhance predictive maintenance models.

- Improved model performance by **12%**, achieving high cross-validation consistency.

- Preprocessed and imputed datasets with missing values, reducing data errors by **20%** using KNN imputation and outlier treatment.

- Delivered a comprehensive feature selection pipeline for **real-time industrial applications**.

YouTube Transcript Analysis
(NLP – Text Processing – Automation – Data Analysis)

- Automated transcript downloading and analysis for **10+ hours** of YouTube video content using APIs and natural language processing (NLP) tools.

- Processed and cleaned textual data with **95% efficiency**, extracting key insights using SpaCy and NLTK.

- Tokenized and identified the **10 most frequent words**, excluding stop words, and implemented named entity recognition to analyze patterns in transcripts.

- Improved transcript processing workflows by **30%** through streamlined automation.

Certificates

- Workflow Specialist & Asana Foundations from Asana   Apr 2025
- GAIC program offered by Sprints & IOM - UN Migration.   Jun 2025-Apr 2025
- AI Starter Kit program by ALX   Feb 2025-Apr 2025
- 1 Million Prompters Program, by the Dubai Future Foundation   Mar 2025
- Education for Employment (EFE) Institute Program, IBM   Nov 2024-Jan 2025
- McKinsey Forward Program (Core Track)   Oct 2024-Dec 2024
- Data Analyst L1 by Coursera and IBM   Jun 2024-Jun 2025
- Professional Foundation in ALX   Jun 2024-Sep 2024
- CCAI summer school on AI and climate change   Jun 2024-Aug 2024

Volunteering

- Volunteer at Professional Foundation in ALX   Feb 2025-Aug 2025
- IGV member at AIESEC   Feb 2025-Aug 2025
- Media member at IEEE Alexandria University   Dec 2023-Apr 2025
- CO-Head of human resources at Enactus Alexandria University.   Mar 2023-Apr 2024
- HR member in SAVE Junior   Feb 2023-Sep 2023