

AHMED SAMY

Data Scientist

PROFILE

Experienced Data Scientist with 4+ years of diverse industry experience and 6 years in the general Tech Market including Network Engineering, Web Development, and Software Engineering. Skilled in creating data-intensive applications, overcoming scalability challenges, and implementing predictive modeling techniques. Proficient in Python, Java, and data mining algorithms. Recognized for adeptly translating complex business needs into innovative, adaptable solutions.

EXPERIENCE

Senior Data Scientist @ Etisalat e& (UAE)

Feb 2024 - Present (Full-time) | United Arab Emirates

Utilizes advanced data science methodologies to spearhead innovative initiatives focused on optimizing B2C operations within the organization like Customer Segmentation, Offer Specification, Credit Facility Modeling and Fraud Detection. These endeavors aim to elevate customer service standards

Data Science Instructor @ NTI

DEC 2022 - Present (Part-time) | New Admin Capital, Egypt

Teaching postgraduate students data flow in machine learning and data science projects, covering all stages and implementation of different projects with variety of use cases. (Finished 3 Rounds)

Data Scientist @ Austin Artificial Intelligence, Inc.

Oct 2023 - Feb 2024 (Full-Time) | Lakeway, TX, US | Remote

specialized in DS and NLP tasks, contributing to the productization of data sourced for major clients across the US specialized in fields like Real Estate, Stock Market, and KPIs Analytics.

AI Business Developer @ Super Smart Solutions

April 2023 - Present (Part-time) | Saudi Arabia

Specializing in project management, I excel in implementing agile methodologies and devising innovative solutions for large-scale AI-powered agricultural projects. My dedication ensures seamless integration of cutting-edge technology for sustainable farming practices.

Artificial Intelligence Engineer @ Orbits IT

May 2023 - Oct 2023 | Cairo, Egypt

Led a computer vision project for a Saudi Arabian governmental organization to improve road quality using generative AI and computer vision. Managed model deployment on edge devices and an SQL server database.

Data Scientist @ Fixed Solutions

Dec 2021- May 2023 | Cairo, Egypt

Analyzed data from large-scale digital transformation projects for Egyptian ministries. Gained extensive experience in data analytics, pipelining, workflow planning, and designing.

CONTACTS

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EDUCATION

MSc in Artificial Intelligence (Finished pre-Master)

FCI, Zagazig University | 2022 - Present

AI/ML PRO Scholarship - ITI & EPITA

Information Technology Institute (ITI) | Apr 2021 - Dec 2021

BSc in Computer Science & Information Technology

FCI, Zagazig University | 2014 - 2018 (Grade: Good)

PROJECTS

Visual Pollution Detection (Visual-Distortions) - SA

Tools: Yolov8, SQL server DB, Streamlit, Flask, LabelImg

Developed a CV model to detect objects, sending data to a connected Database, accessible via web and mobile apps and cameras with NVIDIA GPUs.

Customized AI Chatbot - (Digital Egypt -EEHC)

Tools: LLM Fine Tuning, Facebook's FastText Embedding, Flask,

Ngrok, Streamlit, Llama2, Langchain, VectorDB

Utilized text similarity models for fine-tuning Large Language Models and applied prompt engineering. Achieved SOTA results using RAG with Llama2.

Cairo Demographic Center (CDC)

Tools: ETL, Apache Spark, Python, Apache Airflow, Tableau,

Time-series Analysis, Clustering Models, Anomaly Detection

Analyzed various data sources from governmental entities to study population demographics, and risk analysis, and provide decision-makers with statistical and predictive insights.

Real-Time Handwriting Using Fingertip Recognition

Tools: Computer Vision, Roboflow, Yolo v5, OpenCV

Enabled online instructors to write, draw, remove, and control fonts and colors using hand movements captured by the laptop's camera.

Arabic Dialect Recognition

Tools: NLP, LSTM, Naïve Bayes, Flask, NLTK

Developed a web app that predicts the dialect of an Arabic sentence. Utilized Naïve Bayes for classical ML and LSTM for DL.

Data Streaming from MongoDB to Kafka

Tools: Python, MongoDB, Kafka

Designed a data streaming project that connects to a MongoDB server, collects data, and sends it to Kafka for further processing.

Java Project Using Maven & Spark

Tools: SQL, Apache Spark, Java

Implemented SQL, data preparation, and machine learning algorithms in Java, offering flexibility with different programming languages.

SKILLS

Data Science & ML

Deep Learning (Torch - Tensorflow)
Supervised ML
Unsupervised ML
AWS ML specialty
LLM & Transformers
Making use of Chat GPT API
Prompt Engineering

Software Engineering

Advanced python
Data version control
Gitlab Code versioning
Agile - Jira
Algorithms
OOP

Data Visualization

PowerBI
Tableau
plotly – Dash
StreamLit with Clouding
Apache Superset

MLOPS

Azure Devops (ADO)
Docker
ML Model Deployment
Flask
MIFlow
Kubeflow
Apache Airflow
Ngrok for Hosting

Big Data Engineering & Processing

Data Warehousing
Data Lake
ETL pipeline
NoSQL (MongoDB)
PostgreSQL
IBM Netezza DB
Databricks - Delta Lake
Apache Spark
Apache Kafka
Data Modeling
SQLAlchemy
Pandas & Numpy

ACHIEVEMENTS & CERTIFICATES

Database Design and Basic SQL in PostgreSQL (University of Michigan)

Learned database design and SQL in PostgreSQL, enabling table creation, column definition, and data schema establishment using commands like INSERT INTO and ORDER BY.

Machine Learning Engineering for Production (MLOPS) – COURSERA

In this Specialization, I learned how to conceptualize and maintain integrated systems. You mastered well-established tools and methodologies to build production systems that can handle relentlessly evolving data and continuously run at maximum efficiency.

DATA SCIENCE TRACK - DATACAMP

A collection of about 30 Courses in the track of data science using Python.

KAGGLE COURSES

A set of courses powered by Kaggle that manages you to deal better on the platform and gives basic knowledge about ML, Computer vision, and NLP.

DEEP LEARNING SPECIALIZATION - COURSERA

A Collection of courses concentrates on the Fundamentals of deep learning and CNN and other high-quality courses - Introduced by Andrew Ng

INTERNSHIPS

Business Intelligence - Cognos IBM

IBM | 2017

Web Design - ITI Nanodegree (Summer internship)

Information Technology Institute (ITI) | 2017

Server admin and Networking

Ministry of Communications & Information Technology | 2016

LANGUAGES

- **Arabic** - Native language
- **English** - Professional level

INTERESTS

- New Technologies
- Economy
- History
- Sports

HONORS & AWARDS

- Secured first place in the LabLab Hackathon by implementing GAIA for an AI-powered tourism website in Saudi Arabia. Integrated NLP and image computer vision solutions to enhance the AI's capability in assisting tourists with travel planning.
- Presenting online introductory lectures on AI & Data Science to many universities and Activity groups like Google Developers Students Club - Menoufia University, and Faculty of Pharmacy Suez Canal University.
- Participation in the annual United Nations Youth Hackathon on data science to give insights and reports about data related to the Coronavirus (COVID-19) through a dashboard that explains our observations and a Python code that expresses our work