

## Companies works using AI in Egypt

Name	Fields
<u>ABM Egypt</u>	NLP, Social Media analytics, Search Engine optimization
<u>Adam.ai</u>	NLP, machine learning, embedded systems
<u>Advansy ESC</u>	Embedded Software, Big data, IoT
<u>Affectiva</u>	Machine learning, Deep learning, Computer vision, Speech(new project(s))
<u>Agolo</u>	NLP, ML, DL
<u>Arqamfc</u>	Analytics
<u>Ave labs</u>	Deep learning, Machine learning techniques, Computer vision, Image Processing and Signal Processing, Control theory & Artificial Intelligence
<u>AvidBeam</u>	Machine learning, OCR, Computer vision, DL
<u>Elves</u>	Chatbots
<u>Bee Smart Payment Solutions</u>	ML, Big Data
<u>Cequens</u>	Predictive models, Machine Learning, Chatbots
<u>Cognitev</u>	ML, DL, Recommendation systems, IR (Information Retrieval), NLP (Natural - Language Processing)
<u>Comiot</u>	IoT, Computer vision, ML
<u>Crowd Analyzer</u>	Big data, Machine learning, Social Media Analysis, Arabic in Social Media Analytics
<u>Data Gear BI</u>	Data Mining, Business Intelligence(BI)
<u>El menus</u>	Recommendation systems, NLP
<u>Heuro Labs</u>	Artificial Intelligence, Cognitive Computing, Machine Learning, Big Data, Data Fusion and Data Mining
<u>IBM Egypt</u>	NLP(Watson practice team), ML, DL

<b>Name</b>	<b>Fields</b>
<u><a href="#">Incorta</a></u>	Robotics, computer vision
<u><a href="#">InnoVision Systems</a></u>	Robotics, computer vision
<u><a href="#">Itworx</a></u>	Big Data
<u><a href="#">Knowledge officer</a></u>	information retrieval and text summarization for articles on the web. Based mainly for many NLP and recommendation systems
<u><a href="#">Mendel.ai</a></u>	Artificial Intelligence in Medicine, Machine learning, OCR, NLP
<u><a href="#">Microsoft ATLC</a></u>	ML, DL, NLP, OCR, Speech, Search engines(Bing team)
<u><a href="#">Optomatica</a></u>	Machine Learning, AI and Optimization solutions, Analytics
<u><a href="#">Oracle</a></u>	Machine learning, Big data
<u><a href="#">Orange</a></u>	ML, Big Data, Data Analytics
<u><a href="#">Pixellion</a></u>	Image processing, Machine learning, Deep learning, Computer vision, image recognition in the retail industry
<u><a href="#">Raisa Energy</a></u>	ML, predictive modeling
<u><a href="#">RDI</a></u>	Machine learning, Deep learning, Arabic/English OCR, Search engines, Information retrieval, Arabic/English NLP and Arabic/English speech recognition/identification
<u><a href="#">Rology</a></u>	Computer Vision, Medical Image Processing, Machine Learning
<u><a href="#">Sadeem®</a></u>	IoT & Business Analytics
<u><a href="#">Seeloz</a></u>	Data analytics, ML
<u><a href="#">Soho Square Solutions</a></u>	IR (Information Retrieval), ML, NLP (Natural - Language Processing)
<u><a href="#">Speakol</a></u>	ML, DL, Big Data
<u><a href="#">Sypron</a></u>	Big Data, ML, DL, Computer vision, NLP, General AI apps
<u><a href="#">Stratochem</a></u>	Data analysis, Image processing, data mining

<b>Name</b>	<b>Fields</b>
<u>Tactful</u>	Conversational Agents, NLU, DL, Information Retrieval
<u>Tahrir news</u>	Machine learning, Deep learning, NLP(Arabic & English)
<u>TA Telecom</u>	Big Data
<u>Teradata</u>	Big Data Analytics, machine learning and data mining
<u>The D. GmbH</u>	NLP, Chatbots, Computer Vision, Video Analysis
<u>Tpay</u>	Machine learning
<u>Usy tech</u>	NLP
<u>Valeo</u>	ML, DL, reinforcement learning, Computer vision, Autonomous driving
<u>Wego</u>	Data analysis, machine learning, recommendation systems
<u>WideBot</u>	Chatbots, NLP
<u>Wuzzuf</u>	Machine learning, NLP(new project(s)), Search engines, Recommendation/Ranking systems and information retrieval
<u>Xtrava</u>	Machine learning, Deep learning, Signal processing
<u>Yaoota!</u>	Search engine, Big data, ML, NLP
<u>Vodafone</u>	Big data, ML
<u>Wakeb Data</u>	Business Intelligence, Data Analysis, Artificial Intelligence
<u>DilenyTech</u>	Computer Vision
<u>Synapse Analytics</u>	ML, Computer Vision
<u>Asas Alqarar</u>	Machine Learning, Deep Learning
<u>Dell EMC</u>	Machine Learning, Big Data
<u>360imaging</u>	Computer Guided Surgery, Medical Imaging
<u>Fruitful Solutions</u>	Deep Learning, Computer Vision

Name	Fields
<u>Advanced Intelligent Technologies</u>	Machine Learning, Deep Learning
<u>Digified</u>	Machine Learning, Computer Vision
<u>iHub</u>	Machine Learning
<u>Smart Medical Services</u>	Machine Learning
<u>Okhtub</u>	Machine Learning
<u>DevisionX</u>	Deep Learning, Computer Vision
<u>ztechnium</u>	Machine Learning, Recommendation Systems
<u>Lyra)</u>	Machine Learning
<u>Cammedar Health</u>	Machine Learning
<u>Botme</u>	Chatbots, NLP
<u>Converted.in</u>	Machine Learning
<u>MerQ</u>	Chatbots, NLP
<u>Digisay</u>	Machine Learning, Deep Learning
<u>Intouch</u>	Machine Learning, Deep Learning
<u>Cassbana</u>	Machine Learning, Deep Learning
<u>Pegasus</u>	Data Analytics, BI
<u>Z2data</u>	Data Analytics
<u>Dataplusme</u>	Data Analytics, Data Science, Big Data Analytics, Data visualization
<u>3adda</u>	Data Analytics, Business Intelligence
<u>Path Solutions</u>	Big Data
<u>Ingram Micro</u>	Data Science, Business Intelligence
<u>Scopic</u>	Big Data

<b>Name</b>	<b>Fields</b>
<u>TPay Mobile</u>	Data Engineering, Data Analytics
<u>The Procter &amp; Gamble</u>	Data Science
<u>Henkel</u>	Data Science, Business Intelligence
<u>Halan</u>	Data Analysis, Business Intelligence, Data Science
<u>Mwasalat Misr</u>	Data Analysis, Business Intelligence, Data Science
<u>Swvl</u>	Data Analysis, Business Intelligence, Data Science
<u>Buseet</u>	Data Analysis, Business Intelligence, Data Science
<u>Mawdoo3</u>	Data Science, NLP
<u>Botitapp</u>	Data Science, NLP
<u>Koinz</u>	Data Analysis
<u>Brightskies</u>	Machine Learning, Autonomous Driving
<u>DXWand</u>	Machine Learning, text and speech analytics, NLP, analytics services
<u>MobiDev</u>	AI apps
<u>Cyshield</u>	Data Science
<u>Fixed Solutions</u>	Data Science
<u>Nawy</u>	Data Science, Business Intelligence
<u>Lenme</u>	Machine Learning
<u>Atomica</u>	Machine Learning, Computer Vision
<u>blnk.ai</u>	Machine Learning
<u>Aimtechnologies</u>	Data Science, Machine Learning
<u>SURE International Technology</u>	Machine Learning, AI
<u>BBI-Consultancy</u>	Data Science

Name	Fields
<u>Tensorgraph</u>	AI, Voice Recognition
<u>Etisalat</u>	Machine Learning, Data Science
<u>Agora</u>	educational development
<u>Wellhiring</u>	raise the hiring quality and saving time & cost
<u>Partum electronics</u>	voice controlled smart home devices
<u>Webville</u>	automates photo-editing
<u>Electric dreams solution</u>	machine_learning
<u>Widebot</u>	smart chatbots speak mena language
<u>Egyptian datascientists</u>	data science and Ai training

## **Task 2 php scripted lang or programming?**

PHP is a **scripting language**, which is one of many programming languages. Note that all scripting languages are programming languages, but not all programming languages are scripting languages. A programming language is a formal computer language that combines instructions to generate a specific output.

## **Task 3 types of error in programming**

1. **Syntax Errors:-** computer languages have grammar rules. But while humans are able to communicate with less-than-perfect grammar, computers can't ignore mistakes, i.e. syntax errors.  
computer languages have grammar rules. But while humans are able to communicate with less-than-perfect grammar, computers can't ignore mistakes, i.e. syntax errors.

For example, let's say the correct syntax for printing something is `print('hello')`, and we accidentally forget one of the parentheses while coding. A syntax error will happen, and this will stop the program from running.

2. **Logic Errors:-** Logic errors can be the hardest to track down. Everything looks like it is working; you have just programmed the computer to do the wrong thing. Technically the program is correct, but the results won't be what you expected

3. **Compilation Errors:-** Some programming languages require a compilation step. Compilation is where your high-level language converts into a lower-level language that the computer can understand better. A compilation or compile-time error happens when the compiler doesn't know how to turn your code into the lower-level code.

In our syntax error example, if we were compiling `print('hello'`, the compiler would stop and tell us it doesn't know how to convert this into a lower-level language because it expected a `)` after the `'`

4. **Runtime Errors:-** Runtime errors happen as a user is executing your program. The code might work correctly on your machine, but on the webserver, there might be a different configuration, or it might be interacted with in a way that could cause a runtime error.



**5.Arithmetic Errors:-**An arithmetic error is a type of logic error but involves mathematics. A typical example when performing a division equation is that you cannot divide by zero without causing an issue. Very few people would write  $5 / 0$ , but you might not think that the size of something in your system might sometimes be zero, which would lead to this type of error.

**6. Resource Errors:-** The computer that your program is on will allocate a fixed amount of resources to the running of it. If something in your code forces the computer to try and allocate more resources than it has, it can create a resource error

**7. Interface Errors:-**Interface errors occur when there is a disconnect between how you meant your program to be used and how it is actually used. Most things in software follow standards. If input your program receives doesn't conform to the standards, you might get an interface error.

## **Task 4 programming paradigms**

Imperative:- in which the programmer instructs the machine how to change its state

Procedures:- which groups instructions into procedures

Object-oriented:-which groups instructions with the part of state they operate on

Declarative:- in which programmer merely declare properties of the desired result , but not how to compute it

Functional:- in which the desired result is declared as the value of a series of function applications

Logic:- in which the desired result is declared as the answer of a question about a system of facts and rules

Mathematical:- in which the desired result is declared as the solution of an optimization problem

Reactive:- in which the desired result is declared with data streams and the propagation of change

## Task5 ex of interpreted languages

A language in which the implementations execute instructions directly without earlier compiling a program into machine language ,interpreting line by line

### Examples

Php

Ruby

Java script

Python