



# Habeba Ayman Ahmed Mahmoud

Teaching Assistant and Data Science Researcher

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## Education

**Information Systems in Faculty of Computer & Information** Sep 2018 - Jul 2022  
Bioinformatics Department, Assiut  
GPA : 3.87/4 (Rank: 1st in class )

## Employment

**Teaching Assistant at Information Systems Department, Faculty of Computers and Information, Assiut University** Jan 2023 - Present  
Assiut University, Assiut, Egypt

## Courses

**Machine Learning Track by EME** Aug 2022  
Internship Program by Egypt Makes Electronics (EME) a project based Learning Educational (60 Hours, Two Months)  
• Introduction to Machine Learning  
• Mathematics and Statistics for Machine Learning  
• Data Preprocessing  
• Supervised and Unsupervised Learning  
• Model Evaluation and Hyperparameter Tuning  
• Natural Language Processing (NLP)  
• Computer Vision  
• Reinforcement Learning

**HCIA-AI Course by Huawei** Oct 2022  
Course provided by Huawei Talent  
• AI development history  
• Huawei Ascend AI system  
• Full-Stack All-Scenario AI strategy  
• Algorithms related to traditional machine learning and deep learning  
• TensorFlow and MindSpore.

**Data Analysis Challenger Track by Udemy** Present  
Data Science from Beginner to Advanced by Udemy  
• Introduction to Data Analysis  
• Data Collection and Cleaning  
• Exploratory Data Analysis (EDA)  
• Statistical Analysis  
• Regression Analysis  
• Data Visualization  
• Machine Learning for Data Analysis  
• Big Data Analytics

**Introduction to Big Data** Feb 2022  
Course provided by Information Systems Department, Faculty of Computers and Information, Assiut University.  
• Introduction to Big Data Ecosystem  
• Introduction to Data Science  
• Big SQL

## Personal Details

Date of birth  
February 1, 2000

Place of birth  
Assiut, Egypt

Nationality  
Egyptian

Civil status  
Single

LinkedIn  
linkedin.com/in/habeba-ayman-730473184

Kaggle  
kaggle.com/habebaayman

Github  
github.com/habebaayman2000

## Skills

Data Science

Data Analysis

Big Data Analytics

Artificial Intelligence

Deep Learning

Machine Learning

Programming Languages  
(Python, R, Matlab, C++ , Java , C#, SQL)

Software Development

Full-Stack Development

## Computational Biology 1

Oct 2021

Course provided by Bioinformatics Program, Information Systems Department, Faculty of Computers and Information, Assiut University.

- Introduction to Proteomics
- Mass Calculations
- Protein Digestion
- Peptide Identification
- Protein Quantification
- MaxQuant

## Computational Biology 2

Feb 2022

Course provided by Bioinformatics Program, Information Systems Department, Faculty of Computers and Information, Assiut University.

- The Metabolic Engineering Challenge
- A General Model for Metabolism
- cobraPy Package

## Data Mining and Business Intelligence

Oct 2022

Course provided by Computer Science Department, Faculty of Computers and Information, Assiut University.

- Introduction to Data Mining
- Data Warehousing
- Business Intelligence Tools
- Predictive Analytics for Business
- Machine Learning in Business Intelligence
- Text Mining and Sentiment Analysis
- Customer Relationship Management (CRM)

## .NET Web-Development by (ITI)

Jul 2021

Course provided by Information Technology Institute (ITI), Ministry of Communication & Information Technology. (132 Hours)

- Introduction to programming using C#
- OOP using C#
- Advanced C#
- Introduction to SQL Server
- LINQ and EF
- ASP.NET MVC

## Back-End Developer Training by Petra Software

Jul 2022

Course provided by Petra Software (30 Hours).

- PHP
- Server-Side Frameworks
- APIs (Application Programming Interfaces)
- Server Management
- Authentication and Authorization
- Web Security

## Certificates

### Machine Learning Track by EME

Oct 2022

Machine Learning track (60 Hours, 2 months)

- Date of Issue: Oct 29, 2022
- Valid Certificate ID: 63361845

### HCIA-AI Course by Huawei

Nov 2022

- Date of Issue: Nov 20, 2022
- Valid Certificate ID: EBG2020CCHW1100087MOOC202211204846

### .NET Web-Development by ITI

Aug 2021

.NET Web-Development by Information Technology Institute (ITI)

Date of Issue: Aug 19, 2021

### Back-End Developer Training by Petra Software

Jul 2023

Back-End Developer Track by Petra Software, Assiut

- Date of Issue: Jul 19, 2022

Microsoft Office

Leadership

Communication

Well Speaking

## Languages

Arabic

English

German

## Hobbies

■ Reading

■ Swimming

■ Tennis

■ Technology

## Achievements & Projects

- Graduation Project: Eye Gaze Detection
- Forest Cover Type (Kernels Only) Training Data using Machine Learning Algorithms (80% accuracy)
- Customer Churn Prediction in Sparkify using Machine Learning on Big Data Platform
- Academic Papers Categorization using Graph Neural Networks
- The Metabolic Pathway Model and Map of E.coli
- Assiut University Hospital Website
- Breast Cancer Big Data Project using RHadoop
- DNA and Protein Sequence Alignment Website using Python
- Hospital Information System
- Analysis for RNA-seq using Reporter Algorithm
- Train Place Reservation Application by C++
- Laboratory System using Java
- House Price Prediction Application