

Asser Mahmoud

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🔗 [AsserM-DS](#)

in [Asser Mahmoud](#)

Education

B.Sc. in Communication and Information Engineering (2021 - Current)

Helwan University, Cairo, Egypt

GPA: 3.1/4.0

Relevant Coursework: AI, Machine Learning, Deep Learning , Calculus, Probability & Statistics

Skills

Programming Languages:

C/C++, Java, Python, SQL

Libraries & Frameworks:

TensorFlow, Pandas, NumPy, Matplotlib, Seaborn

Data Analysis Tools:

Power BI, Excel

Projects

Land price prediction | Python, Pandas, NumPy

Built a polynomial regression model from scratch on data that needed a lot of preprocessing including data cleaning, normalization, and encoding, achieving val-loss that approaches 0.

GitHub: [Cleaning+Polynomial-Regression\(FromScratch\)](#)

Breast Cancer Classification | Python, TensorFlow

Used a Kaggle dataset and built an ANN model for breast cancer classification, then used logistic regression and KNN achieving 98% val-accuracy.

GitHub: [ANN Classification-Breast-Cancer](#)

Vehicle Classification | Python, TensorFlow | Modifier 8.0 competition

Developed a CNN Sequential model for 10-class vehicle classification, achieving 80% accuracy.

GitHub: [CNN-Vehicles Classification](#)

Internet Sales Data Analysis | SQL, Power BI

Manipulated Adventure Works dataset using SQL based on a real-life business letter then created an interactive story telling dashboard using Power BI.

GitHub: [InternetSales-DataAnalysis](#)

Extracurricular Activities

IEEE Communication Society

- *Embedded systems track:* Attended AVR basics workshops, completed various tasks (Feb – July 2023)

- *Machine Learning track:* Covered ML and DL basics, participated in projects (Feb – July 2024)

- *Technical support volunteer:* Maintaining ML projects and leading workshop sessions (Sep2024 – Now)

FEHU CPC Community

- Learned data structures and algorithms, Solved various Codeforces problems

Competitions

- Competed in Modifier 7.0 (Smart Home Project, ATMEGA32 Microcontroller) (July 2023)

- Placed 3rd in Modifier 8.0 Machine Learning Track (Vehicle Classification CNN model) (July 2024)

Courses & Trainings

Supervised Machine Learning: Regression and Classification - DeepLearning.ai (Coursera)

Covered Linear and Logistic Regression, Gradient Descent

Advanced Learning Algorithms - DeepLearning.ai (Coursera)

Topics: TensorFlow, Decision trees, Neural networks

Data Analysis & Business Intelligence - Techmind

Learned Excel, Power BI, SQL and Python for data analysis.

CS50P - Introduction to Programming with Python - Harvard University

Python basics, functions, testing with pytest, exceptions, OOP

Professional Experience

Coding Contributor and Reviewer – Outlier

(OCT 2024 – Current)

Prompt writing and Reviewing AI responses.

Light Current Intern - Shaker's CG Egypt

(June – July 2022)

Learned basics of data transmission, networking, and telecommunications.

Worked closely with system designers and on-site engineers.