

# ALAADIN AL-YNAEY

◆ AI Specialist | Data Engineer | Data Analytic | Mathematics Teacher ◆

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## SUMMARY

I am an AI Specialist currently working in the field of Data Engineering, where I design and implement advanced solutions for data processing, retrieval-augmented generation (RAG), and AI-driven analytics. With a strong background in Data Science, Deep Learning, and Big Data Analytics, optimizing AI models, building local MCP servers and developing intelligent retrieval-based systems.

## EXPERIENCE

### AI Specialist

#### DeepSafer

02/2025 - Present   Sana'a, Yemen

Intelligent Defense for a Safer Digital World — AI-driven XDR & leading Cybersecurity Solutions

- AI specialist in the field of Data Engineering. I work on integrating AI models and using advanced techniques like "RAG" to improve performance and analysis. I leverage cloud tools and technologies such as Python to manage, clean, and analyze data effectively. My goal is to accelerate analytical processes and extract deep insights from big data to support AI-driven decision-making.

### AI Trainer

#### AI Approach Club + CyberAI Club

2025 - Present   Yemen + Online

#### AI Clubs

- AI Trainer specializing in delivering educational content and hands-on training in artificial intelligence, including machine learning, deep learning, and data science. Passionate about simplifying complex concepts and empowering students and professionals with practical skills through workshops, bootcamps, and personalized mentoring.

### Mathematics Teacher

#### Ar-Rasheed Modern Schools + Future Leaders School + Rawabi Haddah + Al-Nasser Institute

12/2018 - 02/2025   Sana'a, Yemen

#### High & Middle school + Institute

- Instructed students in mathematics, fostering a deep understanding of core concepts and enhancing problem-solving skills.

### Human Resources Specialist

#### Office of Technical Education and Vocational Training Yemen

01/2020 - 01/2022   Sana'a, Yemen

The Yemeni Government Office for Technical Education and Vocational Training

- Contributed to the Human Resources department at the Office of Technical Education and Vocational Training, supporting various HR functions and initiatives.

### Recorder

#### Tropical Data Organization

09/2019 - 11/2019   Ibb Governorate, Yemen

Tropical Data is a global initiative helping countries to collect high-quality, standardized prevalence data on neglected tropical diseases (NTDs) by supporting health ministries from the start to the end of the survey process.

- Served as a Recorder in a comprehensive field survey for trachoma disease across the governorates of Ibb and Hodeidah.

## SKILLS

### Artificial Intelligence (AI):

Python   RAG   MCP   NLP   LLM

LangChain   ML   DL   AI Agents

### Data Science:

Data Analytic   Weka + Orange

Data Visualization   Big Data

Cloud & Deployment Skills   Data Mining

### Mathematics & Statistics

### Programming:

C++   Assembly   Java   OOP

Algorithm Analysis   Data Structure

### Data Base:

SQL   PLSQL   MySQL   Oracle

PostgreSQL   MonogoDB   Firebase

### Web Development:

PHP   React   HTML + CSS

JavaScript   API Development   Flask

Python Streamlit   Oracle Apex

### Mobile Applications:

Flutter   Dart

### Leadership:

Communication   Team Management

Project Management   System Analysis

### Teaching & Training:

TOT   Microlearning

## EDUCATION

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Bachelor's degree, Artificial Intelligence and Data Science

[International University of Technology Twintech](#)

📅 01/2022 - 01/2026

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Studying in an Outstanding Student High School

[Jamal Abdel Nasser High School](#)

📅 01/2015 - 01/2018

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Studying English Language

[A2Z English School](#)

📅 01/2019 - 01/2021

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## AI PROJECTS

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Creating Real-Time Emotion Detection Using CNN Model Integrated with Web Application

📅 2024

An AI project that uses a Convolutional Neural Network (CNN) to detect human emotions (e.g., happy, sad, angry) from facial expressions in real time. The model is integrated into a web application, allowing users to interact through a webcam and receive instant emotion analysis, making it useful for applications like virtual therapy, user feedback, or smart interfaces.

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Local Firewall Assistant

📅 2025

A Retrieval-Augmented Generation (RAG) based AI assistant designed to enhance cybersecurity by helping manage and monitor firewall configurations. It retrieves relevant documentation, threat intelligence, and best practices from trusted sources to provide context-aware suggestions or answers, aiding security teams in decision-making and policy updates.

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Documents RAG System with Python Streamlit

📅 2025

An AI-powered document assistant built using Retrieval-Augmented Generation (RAG) and a Streamlit web interface in Python. It enables users to upload or query documents, retrieve relevant content using a vector database or semantic search, and generate concise, context-aware responses using a language model—all within an interactive and user-friendly Streamlit app.

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Documents RAG System with Python Flask

📅 2025

A web-based document assistant that leverages Retrieval-Augmented Generation (RAG) to answer user queries based on uploaded or stored documents. Built using Python and Flask for the backend, and HTML, CSS, and JavaScript for the frontend, the system retrieves relevant information through semantic search and generates context-aware responses using a language model, all within a responsive and interactive web interface.

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Local MCP Intelligent Agent for Microsoft Apps

📅 2025

An AI-powered server acting as an intelligent agent to manage and automate Microsoft applications (like Word, Excel, PowerPoint). It interprets user commands, executes tasks, and integrates with Microsoft to control app features, improving productivity by streamlining workflows through natural language interactions or automated scripts.

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## ACHIEVEMENTS

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**Founder of the CyberAI Club**

Founder of the cyberAI Club, a student-led initiative aimed at empowering university students with knowledge and hands-on experience in artificial intelligence and cybersecurity. Spearheaded the creation of a collaborative learning environment by organizing workshops, hosting expert talks, and facilitating peer-to-peer projects to bridge the gap between academic learning and real-world applications.

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**Leader of AWS Cloud Club**

Leader of the AWS Cloud Club, responsible for guiding students in cloud computing initiatives, organizing workshops, and fostering a community of learners interested in Amazon Web Services and modern cloud technologies.

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**Developing a mathematics law in calculus**

Developed a novel calculus theorem focused on the differentiation of root functions, rigorously validated through comprehensive analysis, formal proofs, and extensive testing with diverse examples.

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## COURSES

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[First Aid Course from the Yemen Red Crescent Society](#)

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[First Aid Course from University of Science and Technology](#)

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[Intravenous \(IV\) Solutions Course from University of Science and Technology](#)

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[Creative Writing Course from Sana'a University](#)

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[Basic French Language Course from Approach Institute](#)

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[Research and Studies Course from Al-Hamdi Foundation](#)

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## LANGUAGES

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**Arabic**

Native



**English**

Proficient



**French**

Beginner



## AI PROJECTS

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### Creating a Telegram Bot with Local Model from Ollama for Real-Time Chat Using Google API

📅 Date period

Developing a Telegram bot that uses a local model from Ollama to generate responses in real time, while integrating Google's API for fetching additional data or enhancing conversations. The bot responds to user inputs based on pre-trained local models, ensuring fast and efficient replies without relying on the internet, except for Google API calls when necessary.

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### Google Dinosaur Game Using Genetic Algorithm to Learn How to Play

📅 2025

Developing an AI that learns to play the Google Dinosaur game using a genetic algorithm. The algorithm evolves over generations, with each new generation of AI learning from the successes and mistakes of the previous one. The goal is to improve the AI's ability to avoid obstacles and jump over them, eventually achieving high scores without human input.

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### Offline Chatbot Using Local Models from Ollama

📅 Date period

Building an offline chatbot that leverages local models from Ollama to interact with users directly through a web interface. The chatbot processes user queries and generates responses without the need for internet access, ensuring a seamless user experience.

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### Pathfinding with A\* Algorithm to Avoid User's Drawing and Reach a Goal

📅 Date period

Developing a navigation system that uses the A\* algorithm to find the shortest path while avoiding obstacles drawn by the user. The system dynamically adjusts the path based on the obstacles the user draws in real-time, ensuring that the pathfinding algorithm still finds an optimal route to the goal while circumventing the drawn obstacles.

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### Full Local Cybersecurity Assistant for SOC (Security Operations Center)

📅 2025

An AI-driven cybersecurity assistant designed for Security Operations Centers (SOC) that automates threat detection, incident analysis, and alert management. Built with Python for backend processing and Streamlit for an interactive web interface, it integrates multiple data sources and real-time monitoring to provide SOC teams with actionable insights and streamlined workflows.

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### RAG Web Pages Assistant

📅 2025

An AI assistant that uses Retrieval-Augmented Generation (RAG) to help users interact with and extract information from web pages. It retrieves relevant content from web documents or sites and generates clear, context-aware answers or summaries, enhancing user navigation and understanding within a web interface.

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### CyberMind Assistant

📅 2025

An AI-powered Retrieval-Augmented Generation (RAG) assistant designed to aggregate and analyze cybersecurity blog content from across the internet. It retrieves the most relevant and up-to-date information, then generates concise, insightful summaries or answers to help security professionals stay informed and make better decisions.

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### Local MCP Scraper

📅 2025

Building a local MCP server that scrapes any website and answer questions about it using LLM

## VOLUNTEERING

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### Head of the Media Committee 📅 2018

Worked as the Media Committee at Jamal High School to prepare a supported appreciation ceremony

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### REASON Organization 📅 2019

Developing a web platform called "Bena" that empowers youth to share their stories and experiences

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### Teaching Mathematics 📅 2021

Teaching Mathematics in Al-Amin School and in Al-Nasser commercial institute

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### Charitable Work (Farhat Eid) 📅 2022

Organized fundraising events and distributed Eid treats while actively engaging in community outreach during Eid al-Fitr in the streets of Sana'a, sharing the festive spirit with security personnel, street vendors, and the general public.

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## CERTIFICATIONS

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### Experience in Teaching Mathematics

Experience Certificate in Teaching Mathematics for the Secondary Stage from Future Leaders Schools.

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### First Aid Course

Certificate of Attendance for a First Aid Course from the Yemen Red Crescent Society.

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### Attendance in a First Aid

Certificate of Participation and Attendance in a First Aid, IV Solutions, Wound Care, and Suturing Course from the University of Science and Technology.

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### Wining English Debates

Two Certificates of Recognition for participation and winning twice in an English debate at A2Z Institute.

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### Appreciation from Jamal Abdel Nasser Secondary School

Two Certificates of Appreciation from Jamal Abdel Nasser Secondary School for academic excellence and for participating in the graduation ceremony preparations.

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### Developing Creative Writing Skills

Certificate of Participation as a trainee in an enrichment program for developing creative writing skills in storytelling at the Faculty of Education, University of Sana'a.

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### TOT

A professional certification awarded to individuals who have successfully completed a specialized training program designed to develop their skills in teaching, mentoring, and facilitating learning for others. The TOT certificate validates their ability to effectively train and empower others within organizations, ensuring high-quality knowledge transfer and capacity building.

## AI PROJECTS

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### Alaadin's ChefAI

📅 2025

An AI-powered cooking assistant that allows users to upload images of ingredients or enter them manually to receive personalized recipe suggestions. The system also generates illustrative images for the suggested dishes, giving users a visual preview. ChefAI features a hands-free cooking mode with step-by-step voice instructions, making meal preparation easy, interactive, and engaging.

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### Alaadin's MedicineApp

📅 2025

An AI-powered application that allows users to upload images of medicines and instantly receive detailed information using a Large Language Model (LLM). The app identifies the medication from the image and provides data such as usage, dosage, side effects, and interactions. Users can also ask follow-up questions in natural language for personalized, in-depth insights.

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### Alaadin's LegalAsk

📅 2025

An AI-driven legal assistant that lets users select a country and ask legal questions specific to that jurisdiction. Powered by the Gemini model and integrated with Google's knowledge base, it provides accurate, context-aware answers presented in the style of a professional lawyer, helping users better understand local laws and regulations.

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### Alaadin's BoycottApp

📅 2025

An AI-powered application that allows users to upload an image of any product to check whether it is part of a boycott list, using a curated knowledge base. The app also includes a searchable and filterable product database, enabling users to explore and stay informed about boycott-related products based on categories, brands, or causes.

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## DATA SCIENCE PROJECTS

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### Advanced Video Game Sales Analysis Powered by a Linear Regression Model and Integrated into a Dynamic Web Application

This project combines statistical analysis and web technology to create an interactive platform that facilitates comprehensive video game sales analysis, enhancing the understanding of market dynamics.

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### ETL Pipeline for Firewall Logs using API, MongoDB, PostgreSQL, and Airflow

Building an ETL pipeline to process firewall event logs for detecting suspicious activity. This involves data extraction via an API, cleaning and transforming data, and loading it into MongoDB and PostgreSQL for storage and further analysis. Airflow is used for automating and scheduling the pipeline tasks.

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### Anime Recommendation System Using Cosine Similarity

An AI-based recommendation system that suggests anime titles to users by analyzing similarities between shows using the cosine similarity model. By comparing feature vectors (e.g., genres, user ratings, descriptions), it identifies closely related anime and delivers personalized recommendations based on user preferences or selected titles.

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## ANOTHER PROJECTS

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### Chat Application using PHP & MySQL 📅 2024

Combining PHP and MySQL to create a functional chat application that supports user interaction and real-time messaging, enhancing online communication capabilities.

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### Debt Management System 📅 2024

Creating a debt management system that allows users to track, manage, and pay off debts. This web application is built using PHP for the backend, JavaScript for dynamic interactions, and HTML/CSS for a responsive and user-friendly frontend interface. Users can input and view debt details, manage payment schedules, and visualize debt progress.

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### Oracle Apex for Building a Complete Football Teams Management System 📅 2024

Developing a comprehensive football team management system using Oracle Apex. The system includes functionalities for managing players, coaches, teams, and managers, with features like scheduling, player performance tracking, and contract management. It integrates various data points such as team rosters, player stats, and salary information into an intuitive web interface for ease of use.

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### Simple Snake Game using JavaFX 📅 2023

Creating a classic Snake game using JavaFX, where the player controls the snake to collect food while avoiding its own body. The game features simple controls, an increasing snake length.

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