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Artificial Intelligence and Innovation Centre

Announcing Ceremony of Artificial Intelligence and Innovation Center

University of Kurdistan Hawler

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- **Prof Keith Sharp**
  - President of UKH
  - Kurdistan University-Hawler

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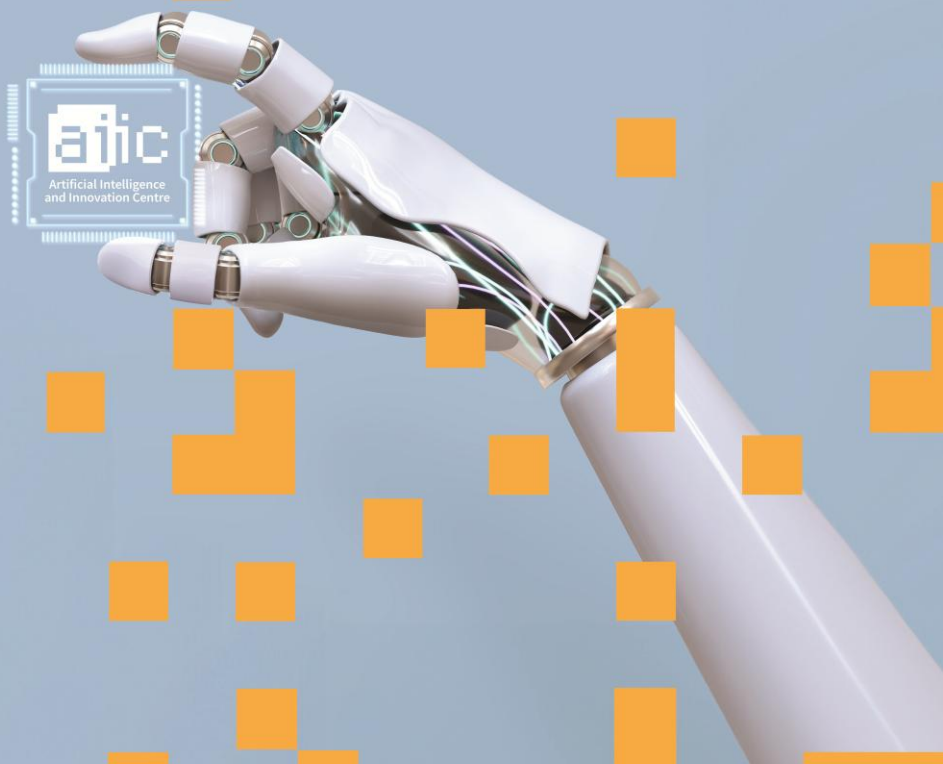
21 April 2024
10:00 AM



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- **Prof Tarik Rashid**
  - A. Dean SSE
  - Kurdistan University-Hawler

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The Road Map of AIIC

Prof. Dr. Tarik A. Rashid

University of Kurdistan Hawler

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Vision

To establish UKH as a leading institution in AI research and application, contributing significantly to the global AI landscape while addressing local and regional challenges.

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Mission

- Interdisciplinary AI Research
- Promotion of the Kurdish Language
- Linking Academia with Industry

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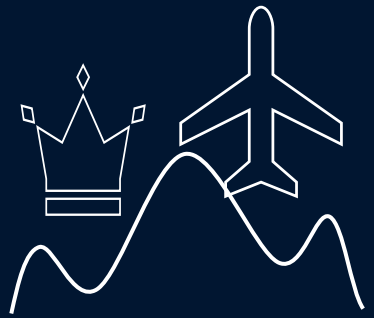
Deciplines



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From Problme to Production

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Advantages

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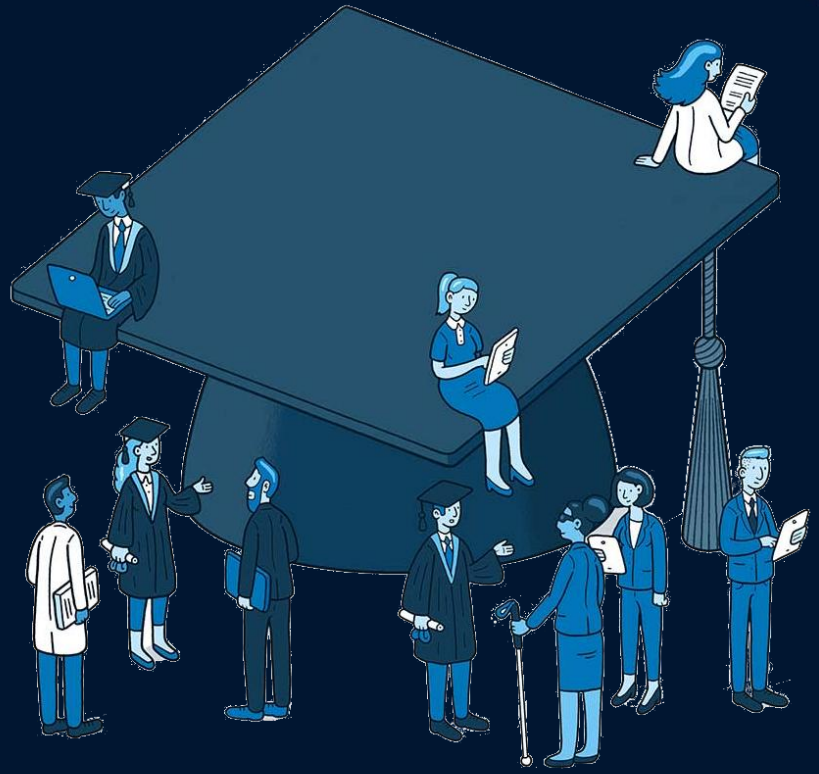
Research Central Hub



THANKS!

Do you have any questions?

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- **Dr Briar Hasan**
  - Teaching Staff & Researcher
  - Kurdistan University-Hawler

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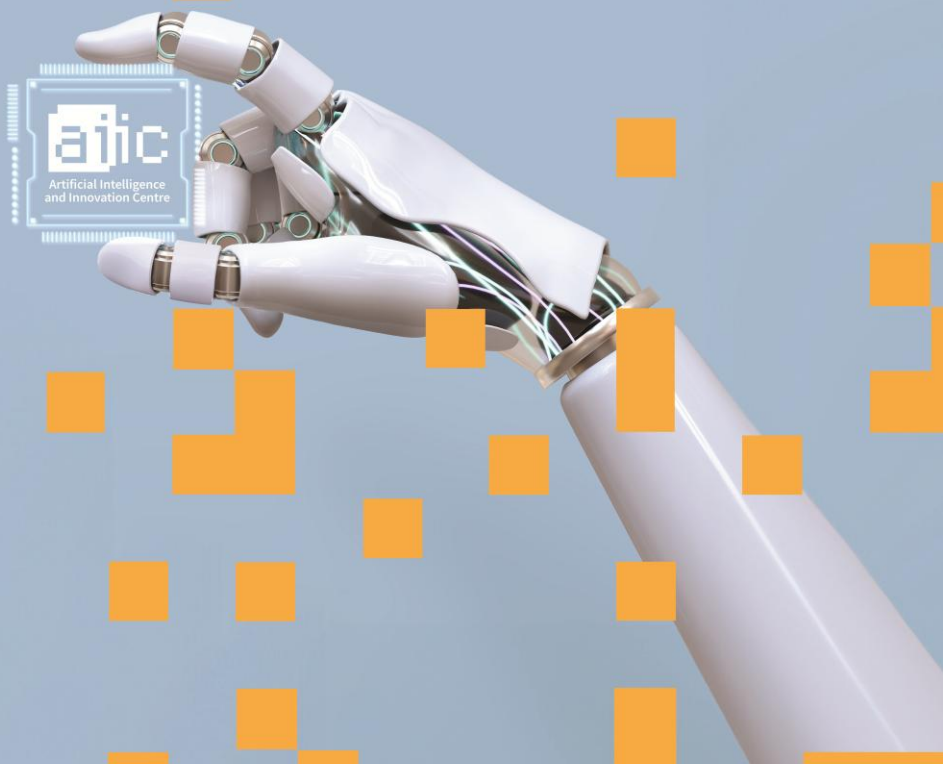

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- **Mr Danar Dlear Kayfi**
  - Game Developer
  - Tutor & Game Zanga Manager
  - Gust Speaker

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Future of Game Development in Kurdistan

Presenter: Danar Dlear Kayfi

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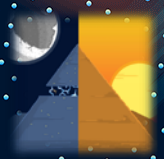
Who am I?



- BSc in Computer Engineering & MSc in Computer Science
- An independent and self-motivated game developer since 2012
- Teaching game dev, Podcaster, and hosting game jams like (Game Zanga)
- Game Programmer (Remotely)

@DanarKayfi

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What is Game Development

Game Development is the art of creating games and describes the design, development and release of a game.

It may involve concept generation, design, build, test and release.

While you create a game, it is important to think about the game mechanics, rewards, player engagement and level design.

freecodecamp.org

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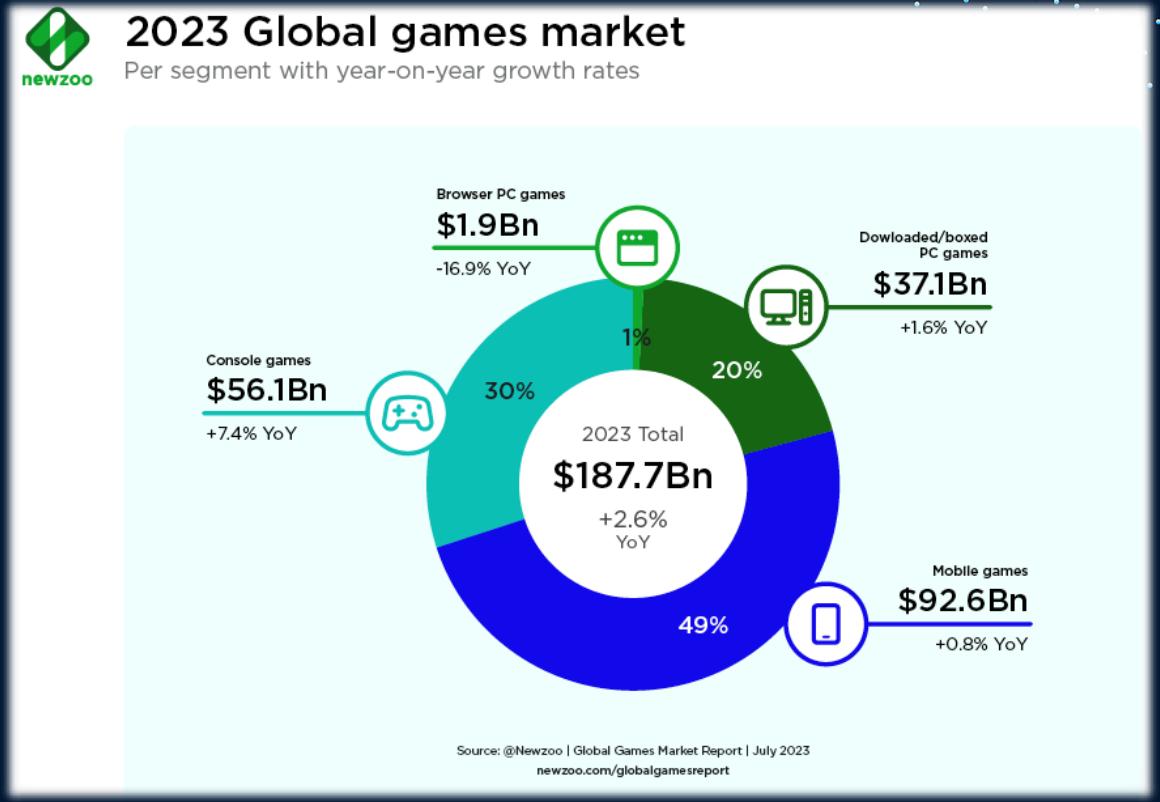
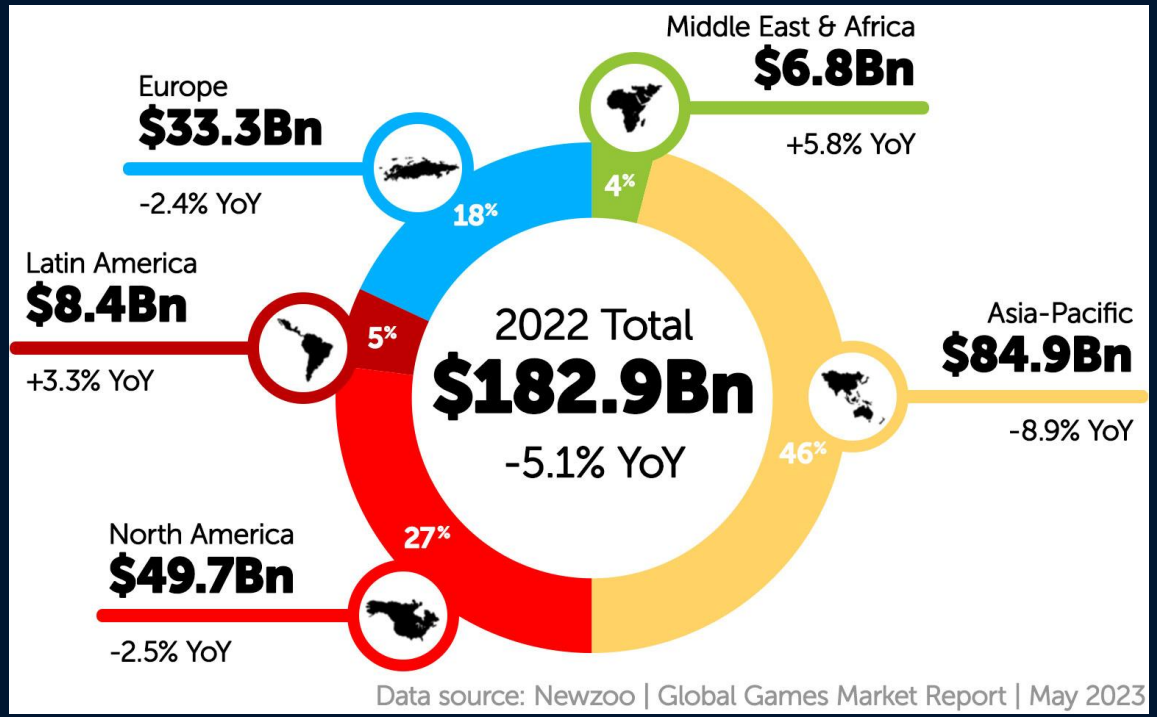
2023 Global Games Market



Middle East & North Africa Market

- **THE fastest growing market by revenue for the last 2 years**



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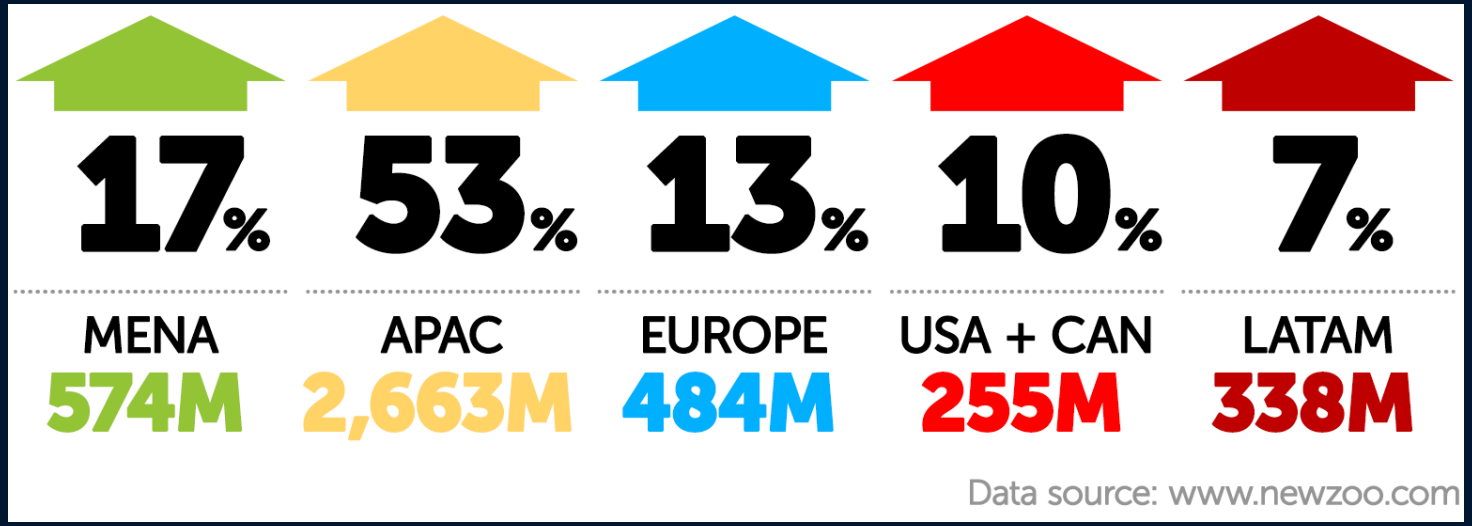
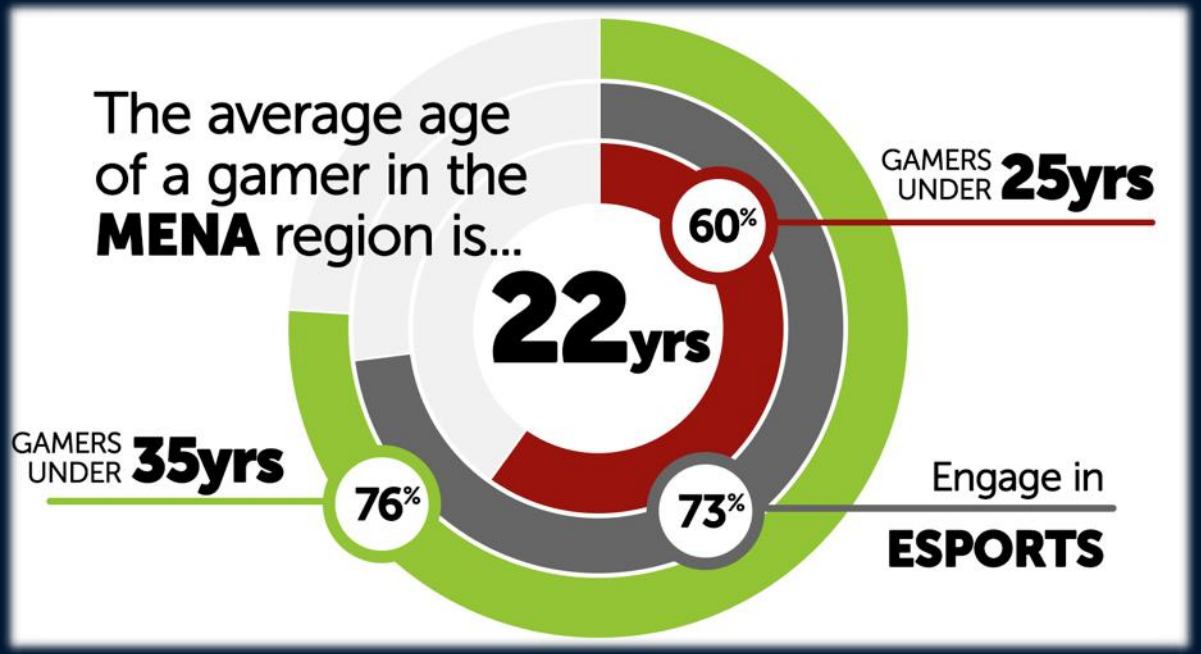
Middle East & North Africa Market

- The fastest growing player base too and now the second biggest in the world



Middle East & North Africa Market

- A younger, fresher player base (who like esports!)



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Middle East & North Africa Ma

- Investors Are Connecting… and Spending!

Saudi Arabia eyes up acquisition of major publisher

The acquisition is part of a $38.7 billion games strategy

Date	Type	Companies involved	Size
September 30th, 2022	ACQUISITION	Savvy Games Group	Not disclosed

September 30th, 2022 - 11:14am
By Lewis Rees, Staff Writer

Saudi Arabia's Savvy Games Group, which is owned by the sovereign wealth fund PIF, claims that it will invest $38.7 billion into the games industry, including a $13 billion acquisition of a leading – but unnamed – games publisher.

The investment will also include $18.6 billion to be focussed into financing a variety of "key companies" to acquire minority stakes, supporting the company's game development agenda. $481 million is earmarked for investments in esports companies and "industry disruptors to grow early-

SAVVY GAMES GROUP

Swedish firm Stillfront acquires MENA publisher Babil Games in deal worth up to $17 million

Stillfront aims to expand its presence in the region

Date	Type	Companies involved	Size
December 16th, 2016	ACQUISITION	Babil Games Stillfront Group	$17m

December 16th, 2016 - 01:30pm
By Craig Chapple, Head of Content

Swedish firm Stillfront Group has acquired games publisher Babil Games to expand its presence in the Middle East and North Africa.

Stillfront will pay $4.5 million up-front, though the deal could rise to up to $17 million if certain performance targets are met. Agnitio Capital acted as financial advisor to Babil Games for the deal.

Babil's founders will remain with the team and continue to lead the company moving forward.

BABIL GAMES

Stillfront Group acquires Jordan-based gaming startup Jawaker for $205 million

Strengthens pre-established presence in MENA region

Date	Type	Companies involved	Size
September 13th, 2021	ACQUISITION	Jawaker Stillfront Group	$205m

September 13th, 2021 - 03:16pm
By Aaron Orr, News Editor

Swedish free-to-play outfit Stillfront Group has acquired Jordan-based mobile games developer Jawaker for $205 million.

Stillfront will pay 74 per cent of the sum in cash and the remaining 26 per cent in newly issued shares.

Jawaker was founded in 2009 by Mohamad Hasan and Yousef Shamoun and has developed board and card games for mobile devices, such as Tarneeb and Baloot

STILLFRONT GROUP + Jawaker

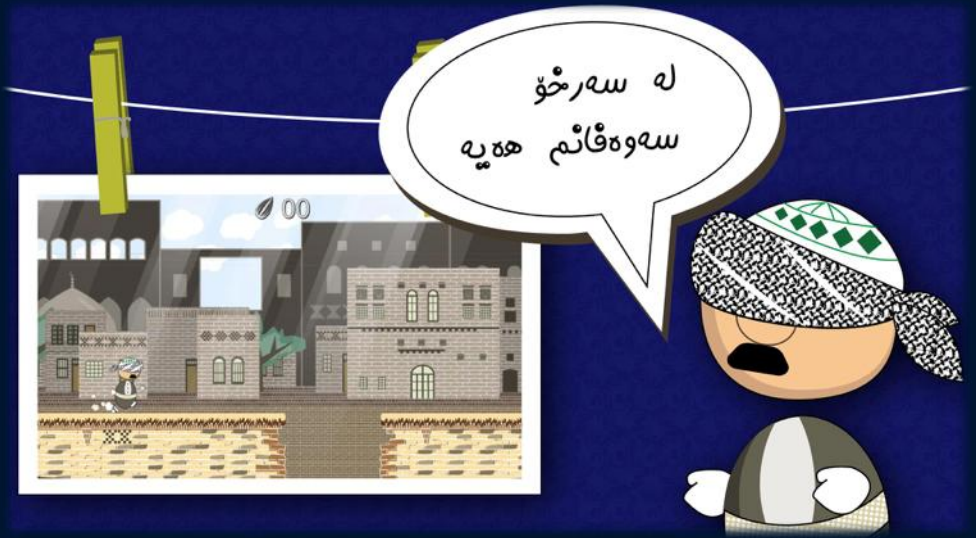
Middle East & North Africa Market

- Events & Conferences

Game Dev in Iraq specifically Kurdistan

- Fastwares (Experience in Game Dev in 2017)

Kawa & Khaje



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Game Dev in Iraq specifically Kurdistan

- Nowdays…

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Why Game Dev Industry is Important for Kurdistan

- One of the most powerful media to export culture
- New job opportunity both locally and remotely

  - Programming, AI, Art, Music/SFX, Design, Monetization, Producer,…
- Attracting Investments

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GAMING PROFESSIONS

2023

Game Development

- AI
- Engine
- Gameplay
- Graphics
- Localization
- Network
- Physics
- Rendering
- Tools
- UI

Art

- 2D
- 3D
- Character
- Concept
- Creative Direction
- Direction
- Environment
- Lighting
- Model
- Prop
- Technical
- Texture
- UI
- VFX
- Vehicle
- Weapon

Software Engineering

- AI
- Backend
- Cloud
- Data Analysis
- DevOps
- Frontend
- Full Stack
- Mobile

Game Design

- Combat
- Economy
- Interaction
- Level
- Monetization
- Multiplayer
- Narrative
- Quest
- Sound
- Systems
- Technical
- UI
- UX
- World

Animation

- 2D
- 3D
- Cinematics
- Gameplay
- Motion Capture
- Particle
- Programming
- Rigging
- Technical

IT

- Cyber Security
- Network Engineering
- System Administration
- Technical Support

Game Production

- Game Direction
- Live Operations
- Product Management
- Project Management
- Prototyping
- Publishing
- Release Management
- Storyboarding
- Studio Management

Audio

- Composition
- Design
- Engineering
- Programming
- Sound Direction

Quality Assurance

- Analysis
- Automation
- Certification
- Compatibility
- Compliance
- Engineering
- Interruption
- Performance
- Platform

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Broadcast

- Camera Operation • Floor Management
- Graphics • In-game Observation
- Lighting • Producing • Replay Operation
- Scriptwriting • Sound Engineering
- Stream Engineering • Studio Management

Content & Media

- Cinematography • Copy Editing
- Game Capture • Graphic Design
- Journalism • Motion Design
- Photography • Scriptwriting • Translation
- Video Editing • Videography

Human Resources

- Compensation & Benefits
- Diversity & Inclusion • Employer Branding
- Health & Safety • Recruitment
- Training & Development • Wellness

Education

- Lecturing • Program Development
- Program Management • Safeguarding
- Teaching

Talent

- Agency • Casting • Content Creation
- Hosting • Interviewing • Management
- Playing • Screen Acting • Streaming
- Voice Acting

Competitive

- Coaching • Fitness • Nutrition
- Performance Analysis • Physiotherapy
- Playing • Psychology • Refereeing
- Scouting • Team Management

Commercial

- Account Management
- Advertising Operations
- Business Development • Customer Service
- Ecommerce • Manufacturing
- Monetization • Partnerships
- Procurement • Product Design
- Product Management • Retail • Sales
- Sponsorships • Ticketing

Administrative

- Executive Assistance • Facilities Support
- Office Management • Personal Assistance
- Reception

Events

- Audio Visual • Catering
- Customer Service • Emergency Services
- Equipment Management
- Facilities Management • Hospitality
- In-game Observing • Logistics • Security
- Technical Engineering

Marketing

- Brand • Community Management
- Copywriting • Digital • Email • Influencer
- Product • Project Management
- Public Relations • Social Media
- User Acquisition

Finance & Legal

- Accounting • Analysis • Auditing
- Compliance • General Counsel • Licensing
- Mergers & Acquisitions • Payroll • Tax

Research

- Academic • Consumer • Data Entry
- Market • UX

Hitmarker

Find your dream job in gaming → Hitmarker.net

UKH and why it should lead this opportunity

- One of challenges now, is the lack of academic role

  - Investing and guiding the new students into new game professions via providing courses/subjects and centers/tools within the university

- University role will help in motivating the government

  - government to help in solving banking and legality issues (Challenge)

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What is a Game Engine?

A game engine is a software framework designed to help developers build video games more easily and efficiently.

It provides tools and libraries for handling graphics, sound, input, physics, and other aspects of game development.

Game engines often include editors for creating game levels, scripting languages for implementing game logic, and support for multiple platforms (like PC, consoles, and mobile devices).

Start Learning?

Unity

GODOT
Game engine

UNREAL
ENGINE

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Is there a success formula?

No! Also,
Better Graphics + **Bigger** Games + **3D** Games
Does **NOT** mean **Successful** Game

THANKS!

Do you have any questions?

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Twitter/Linkedin: @DanarKayfi

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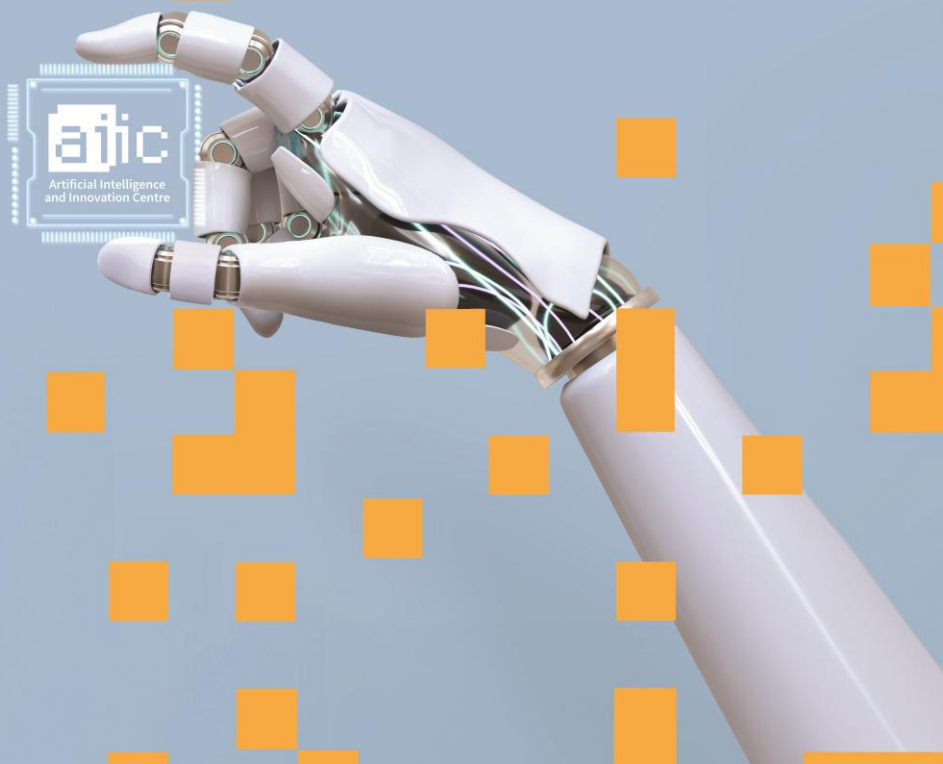

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- **Dr Polla Fattah**
  - Teaching Staff & Researcher
  - Kurdistan University-Hawler

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Data Analysis & Optimization

Dr. Polla A Fattah

University of Kurdistan Hawler

Data Analysis

Data analysis is the process of examining, cleaning, and modeling data to discover useful information and support decision-making.

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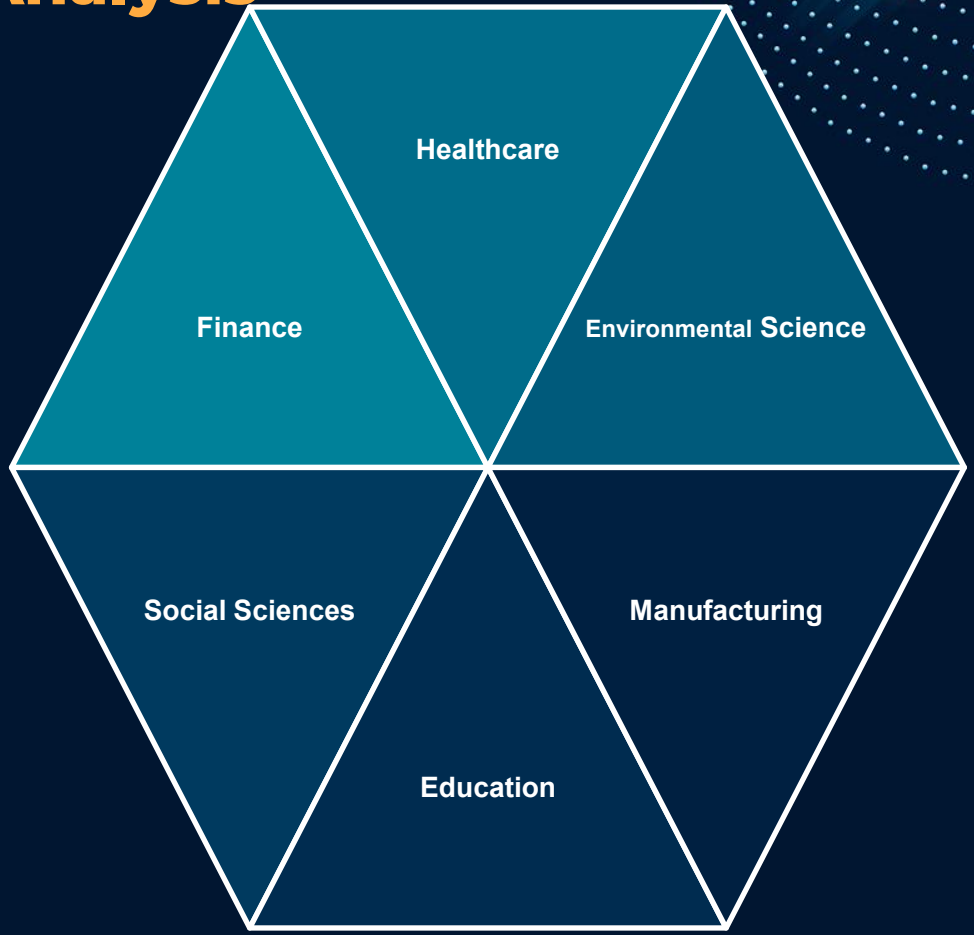
Data Analysis



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Data Analysis in Medicine

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Data Analysis in Medecine

Deep learning for breast cancer classification: Enhanced tangent function

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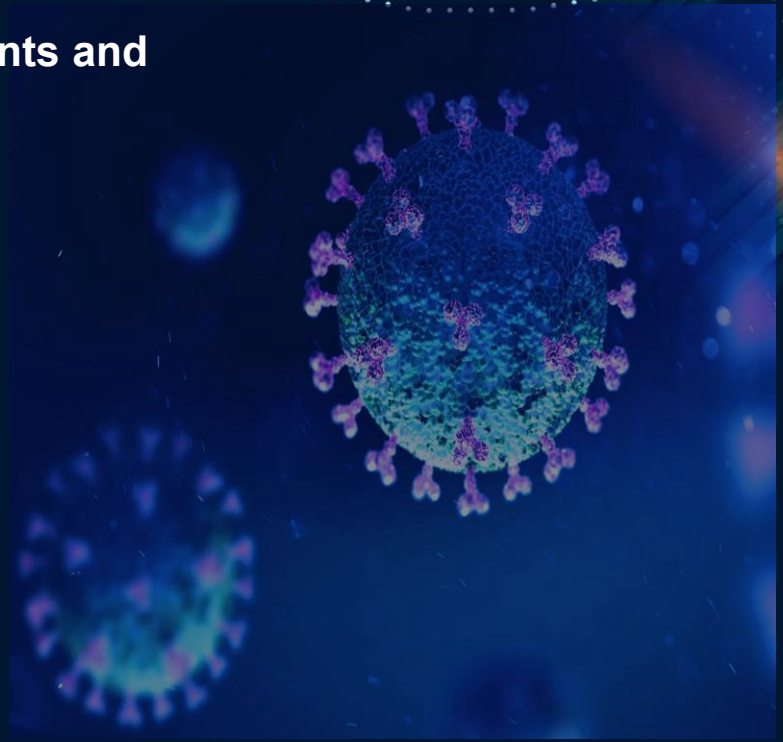
Data Analysis in Medecine

A novel cluster detection of COVID-19 patients and medical disease conditions using improved evolutionary clustering algorithm star



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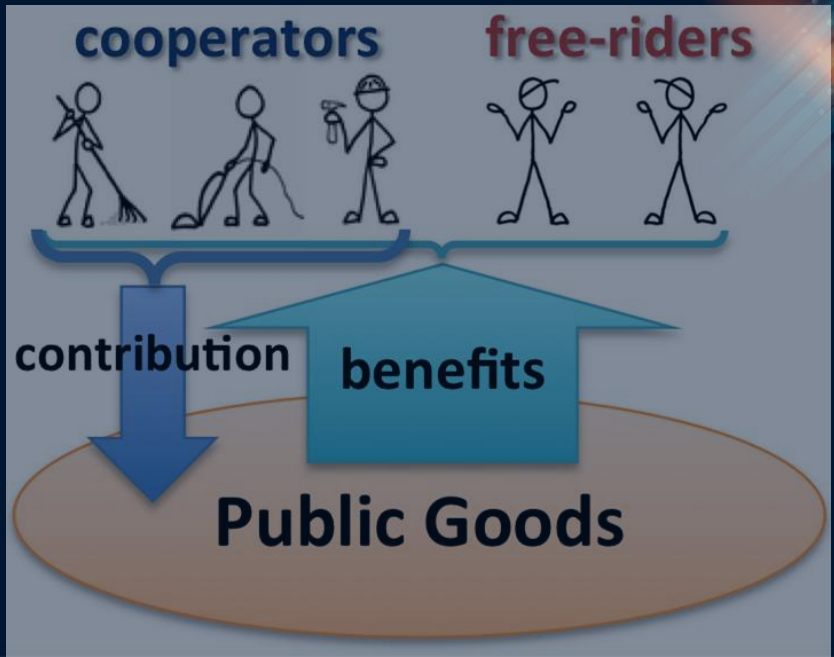
Economic and Data Analysis

Stability Classification of Stock Market Using Temporal Rule-Based Classification

Economic and Data Analysis

- Measuring player's behaviour change over time in public goods game



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Environment

Our members are already in talk with the Governate

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Environment

Predicting Pollution Rate in Big Cities

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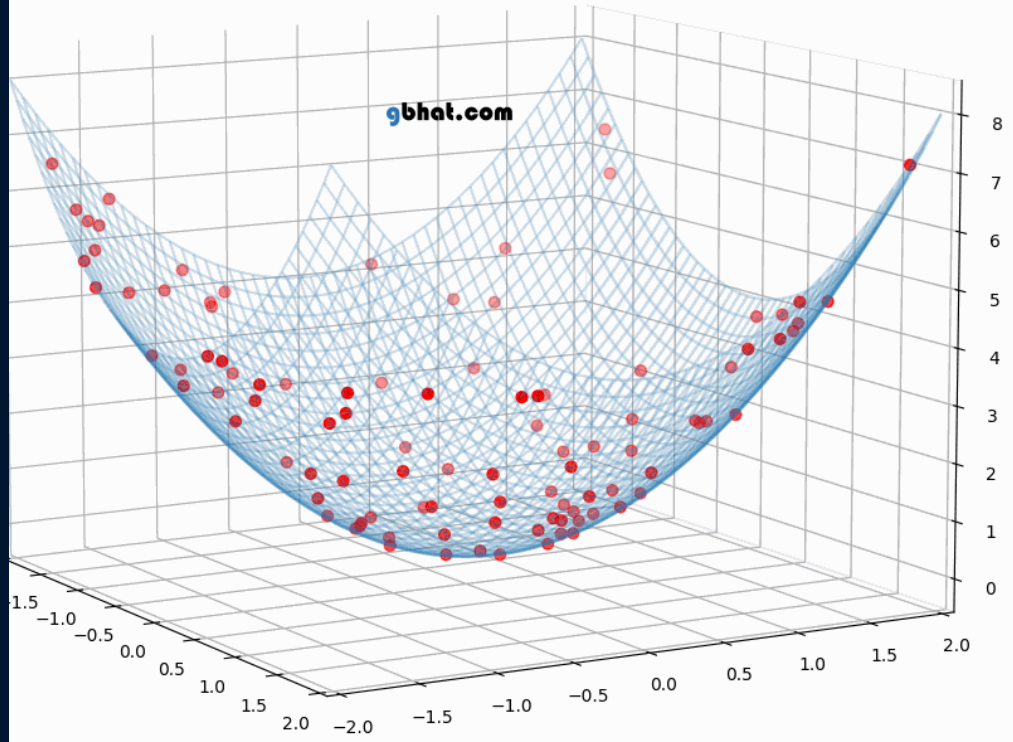
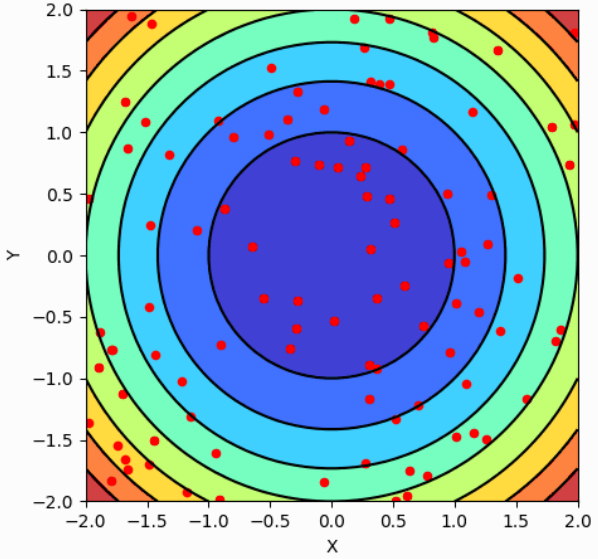
Optimization





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Supply Chain Management

Logistics

Communication

Problem Solving

Finance

Energy

Engineering

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Civil Engineering

Find Best Mix

THANKS!

Do you have any questions?