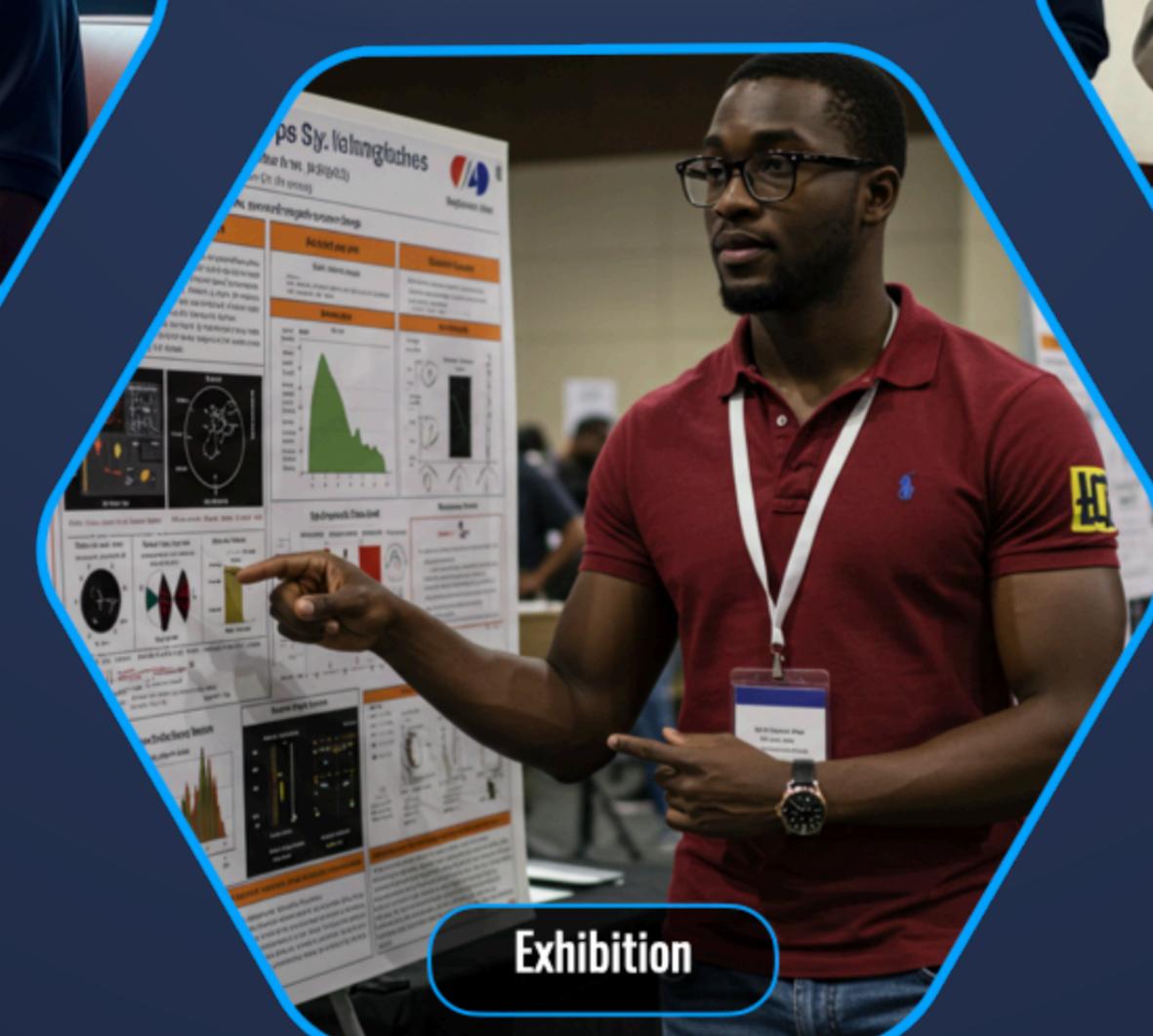
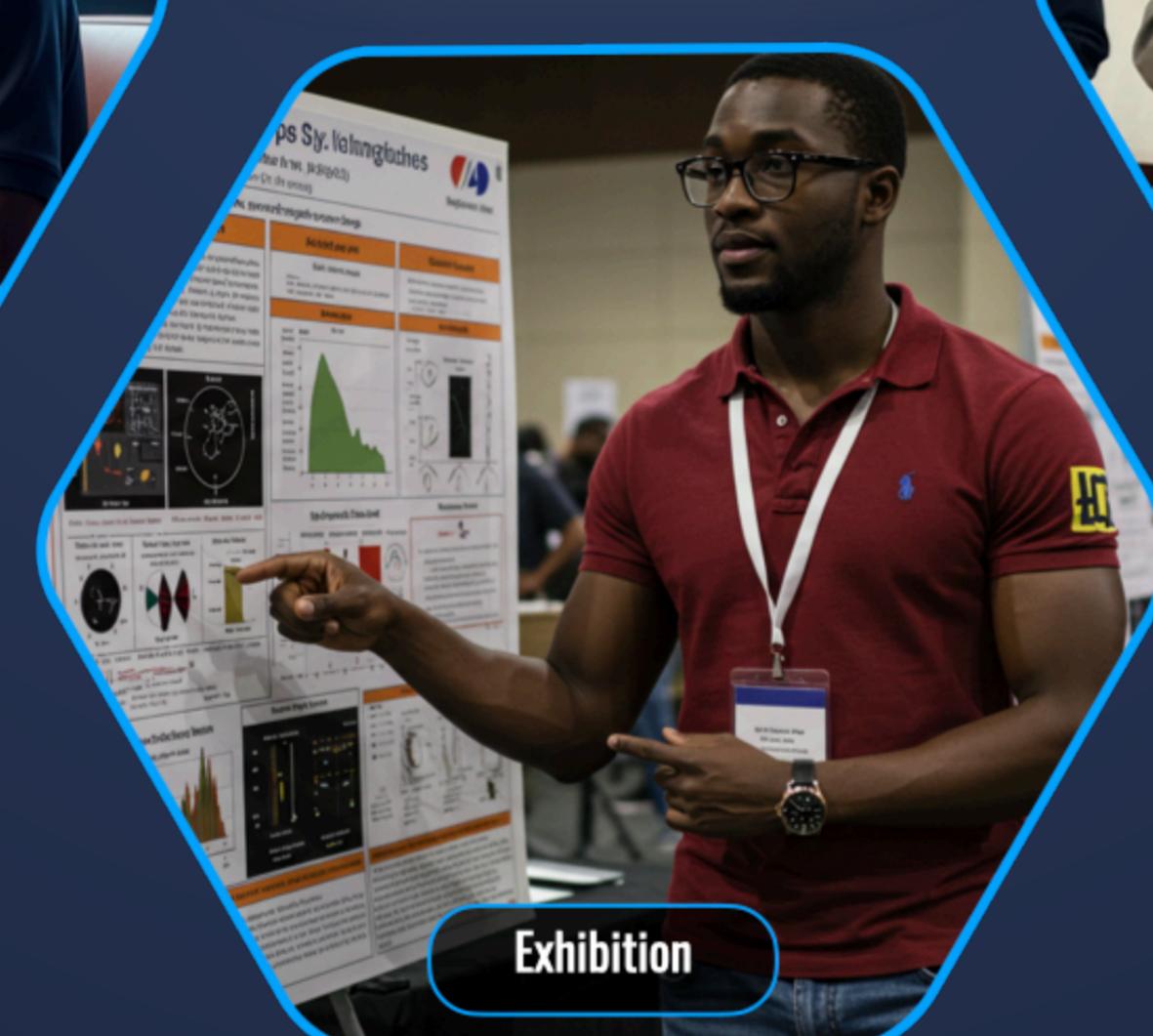
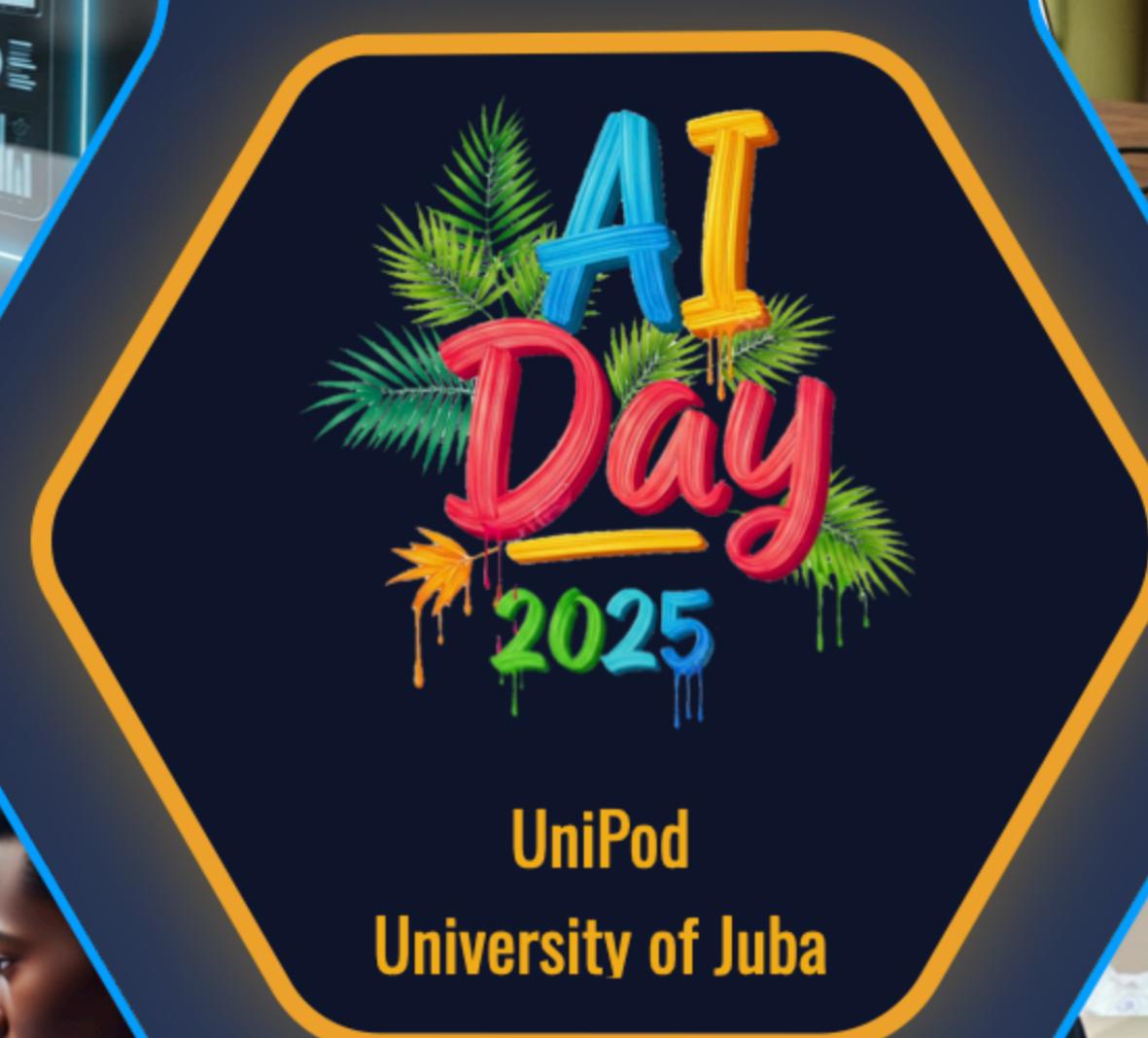


## August

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As the sun rises brightly over Juba, marking the start of another exciting chapter in our journey of discovery, the University of Juba extend a heartfelt welcome to each and every one of you to our annual AI Day!

This year, we gather for three transformative days, a true testament to the innovative spirit thriving within the University of Juba. From the foundational workshops in generative AI, equipping us with the tools to shape the future, to the project exhibitions showcasing the brilliant work of our undergraduate classes, we are here to celebrate the power of artificial intelligence.

Just as the Nile nourishes our land, AI is set to nourish our minds and drive progress in South Sudan. This event is a platform to witness how our students are harnessing this technology to address local challenges and create solutions that resonate with our community. The final day of celebration and awards will not only recognize these achievements but also inspire us to reach even greater heights.

Let us embrace this opportunity to learn, collaborate, and innovate together. Welcome to AI Day, where we are not just exploring the future of AI, but building it, right here at the University of Juba!

Sincerely,

*Dr. Felix Gonda*

Assistant Professor of Computer Science  
University of Juba

# Schedule

## August 20th

- 10:00** Opening Remarks (Dr. Felix Gonda)
- 10:15** Keynote Dean Prof. Benedikto OriLagu
- 10:45** Remarks by Agar Marial (student representative)
- 11:00** Generative AI: Chat GPT and Gemini
- 13:00** Lunch Break
- 14:00** Generative AI: Image Generation

## August 21st

- 10:00** Opening Remarks (Dr. Felix Gonda)
- 10:15** Robotics Demonstration
- 11:00** Projects Exhibition
- 13:00** Lunch Break
- 14:00** Games & Music

## August 22nd

- 09:00** Arrival
- 10:00** Welcome by Dr. Felix Gonda
- 10:30** Project Presentations (contest)
- 11:00** Remarks by Prof. John Akec
- 11:30** Remarks by Dean Prof. Benedikto OriLagu
- 12:00** Remarks by National Communication Authority
- 12:30** Remarks by Vice Chancellor Prof. Robert Mayom
- 13:00** Awards

# Senior Emerging Talent

## Tuberculosis Detection

Reeng Kuol, Moses Luwalla, Yousif John, Malis Ben, and Kuot Chol

This project aims to combat South Sudan's TB crisis by developing an AI system for accurate and efficient detection from chest X-rays, overcoming limitations in healthcare access and resources.

## Traffic Analytics

Nesnea Khadi, Malong Nuoi, Yai Thon, and Yai Simon.

This project uses real-time traffic detection to optimize routes and reduce severe congestion in Juba, improving productivity and quality of life.

## AI Tutor

Philip Mayom, Badeng Lat, Buoi Abraham, Anibiko Samson, and Anthony Makur.

Creating a conversational AI tutor to provide accessible math and science support to students in South Sudan, addressing a critical lack of quality educational resources.

## Lung Cancer Detection

Abraham Dit, Mangar Makur, Monica Ayen, Ngor Wek, Sapano Makuei.

This project aims to improve early lung cancer detection in South Sudan by developing an AI model to overcome limited diagnostic infrastructure and staff shortages, ultimately reducing mortality.

## Resume Analyzer

James Dut, Agar Marial, Ariik Ariik, Abraham Ariik, & Biet Puoric.

This project aims to combat youth unemployment in South Sudan by creating an AI-powered resume analyzer to automate and standardize candidate screening, ensuring fair, objective, and efficient job-candidate matching.

# Seniors

## South Sudan Sign Language Recognition and Translation

[Kuol Duot Akier](#)

Kuol developed an AI system that translates South Sudanese Sign Language (SSSL) into English text in real time to bridge communication gaps between deaf patients and healthcare workers, thereby improving diagnosis and treatment.

## Depression Detection for Suicide Elimination

[Kuol Jok Kuol](#)

This project aims to develop an AI-powered, accessible tool for early depression detection by analyzing textual data, addressing the critical lack of mental health resources in regions like South Sudan.

## Vehicle Speed Detection

[Juma Albert Thomas](#)

To enhance road safety in Juba, Juma used AI to detect speeding vehicles from CCTV footage, thereby creating a system that could potentially reduce accidents and save lives.

## Pedestrian Detection & Tracking System

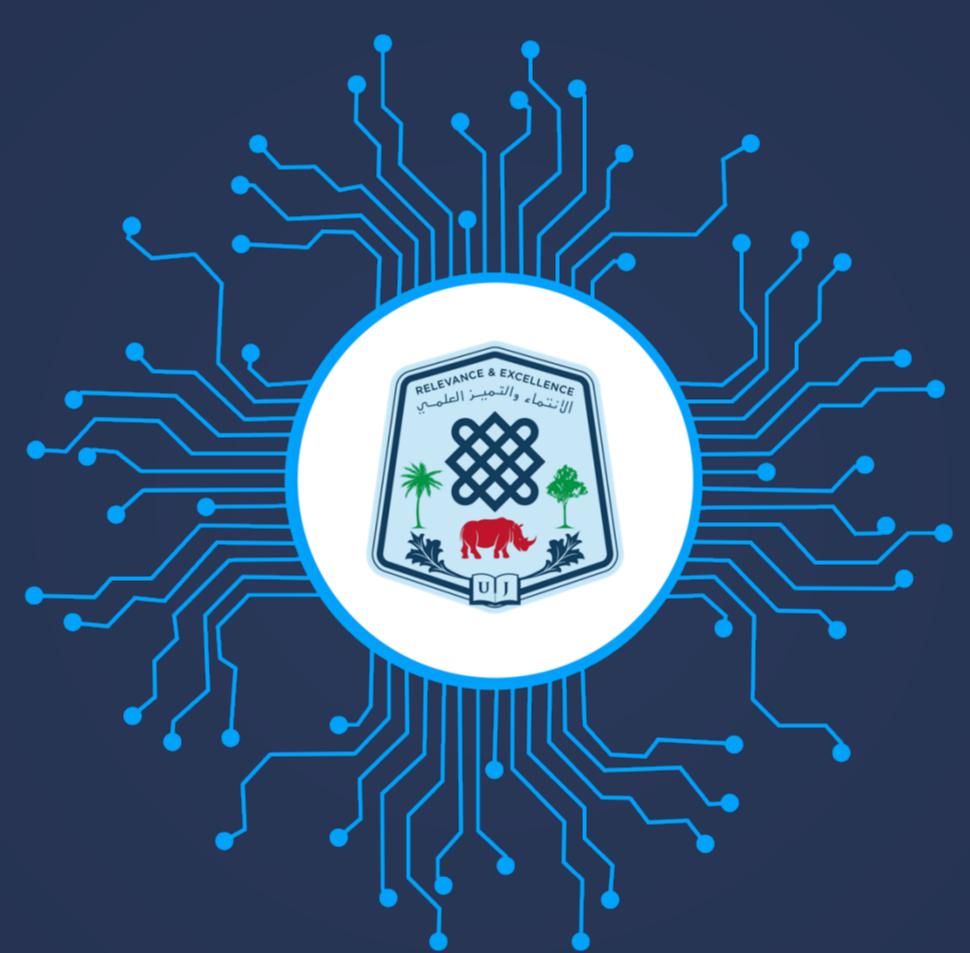
[James Anyieth Yuot](#)

This project develops a real-time pedestrian detection and tracking system to enhance road safety in South Sudan and reduce accidents caused by driver inattention.

## Driver Assistance System

[Thiong Abraham Manar](#)

This project uses AI to detect traffic speed signs in Juba, providing real-time data to help reduce speeding and improve road safety.



# University of Juba

**Artificial Intelligence**

<https://uojai.github.io>