

AI Technology for National Priority Sectors (Healthcare, Education, Food Supply

Kiwi Aliwarga – UMG Idealab

AI Application For Healthcare

Diagnose and Reduce Error

AI can predict and diagnose disease at a faster rate than most medical professionals.



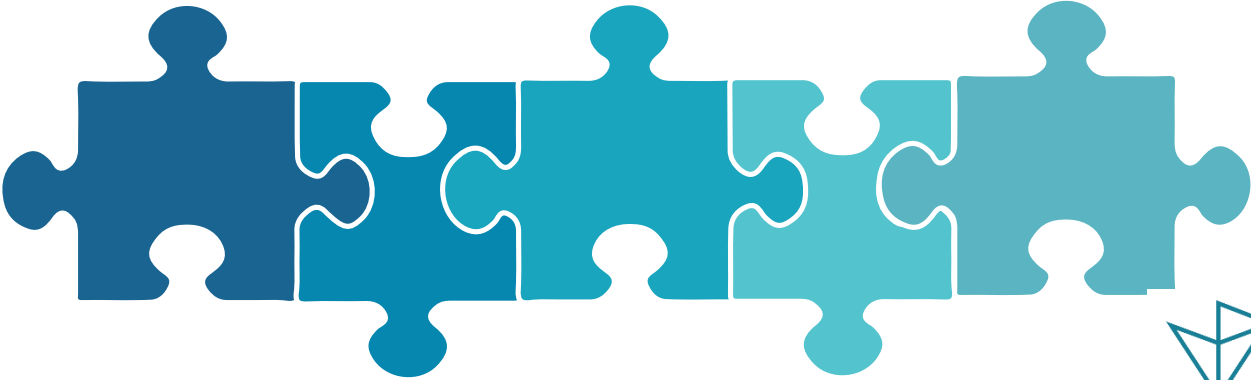
ARYAGUNA TECHNOLOGY



Widya Herbal

Developing New Medicine

Biopharmaceutical already notice of the efficiency, accuracy and knowledge that AI can provide.



STREAMLINING PATIENT EXPERIENCE

Streamlining the patient experience, helping hospital staff process billions of data points, faster and more efficiently.

Mining Data

The technology breaks down data silos and connects in minutes information that used to take years to process.



TEMPUS



ARYAGUNA TECHNOLOGY



VICARIOUS SURGICAL

AURIS™

Robot-Assisted Surgery

The technology breaks down data silos and connects in minutes information that used to take years to process.

AI Application For Education



Speech Recognition

Speech Recognition can be used in learning new language, spelling ability and dictating lectures.



Learning Management System

Speech Recognition can be used in learning new language, spelling ability and dictating lectures.



Personalized Learning

The AI platform tracks student progress, identifies knowledge gaps and offers personal study recommendations and feedback



Computer Vision

Emotion recognition can assist in detecting learner's confusion or engagement

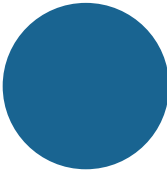
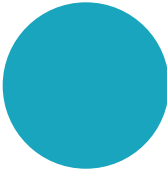
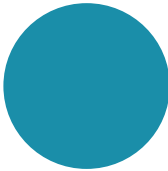
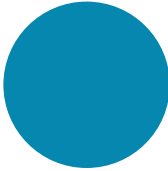
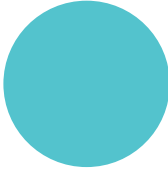


AI Application For Food Supply



Financial Inclusion

AI can help sort out the financial data so the farmers can get financial products



Precision Agriculture

Using AI and other technology to increase crop yields and profitability



Gene Editing

It can improve crops trait without inserting foreign DNA.



Forecasting

Predict what happens throughout the food supply chain.



Traceability

Increase accountability and incentivize food supply chain



Challenges and Opportunity in Each Sectors

Healthcare:

- Patient's **data** need to be keep safe and with their **consent**
- Electronic Health Record (**EHR**) is not always good, we have to use it **efficiently**
- Health workers need to **understand** the results of AI and there's a reason behind it



Education:

- Preparing **the teacher** for using AI
- Need to deal with **ethics and transparency** in data collection
- Ensuring **inclusion and equity** for the students
- Developing **quality and inclusive** data system

Agriculture:

- Need to **bridge the gap** between farmers and AI Engineer
- Ecosystem **vary wildly** from continent to continent
- Farm in **rural area** should be connected to internet
- The technology should be **simple** and **seamless** for farmers to use

Insight and Suggestion

We need to address and ensure the ethical, safety and security of the **implications** of AI

Infrastructure need to be ready: internet connectivity, industry knowledge, etc



Regulation need to be inclusive to all the stakeholders in the playing fields: Government, Private Sectors, Universities, etc

Developing public datasets and environment for AI **training and testing** for employee capabilities

Intensive for this new industry since the ecosystem is still growing, There's still only a few players this vertical



CROWDE
P2P Lending in agricultural industry.



ARUNA
Fisheries E-Commerce .



MSMB
Agro-technology 4.0 for Crops, Livestock, Fishery and Food



INOVASI ANAK NEGRI
Agricultural Machine Manufacture



PROSEHAT
Online Marketplace for Health appliances and Medical Services



BAHASAKITA
AI Voice Recognition with natural language processing system



JAVA UNITED
Information Technology and Telecommunication contractor services



LEGALKU
Online Platform for legal services.



AUTOCONZ
3D Printing for construction needs.



PERAWATKU
Home health-care service provider.



BUKKU
Home health-care service provider.



Aryaguna
AR/VR for medical products



Rumah Pasila
Green energy solution using Graphene



AICI
AI Research Center for everyone collaborating with UI



BOTIKA
AI Chat Bot with Natural Language Processing (NLP)



STARCHAIN
Warehouse management for Small-Medium Enterprises



FROGS
Passenger Drone Manufacturer for Air Taxi and logistics.



ARUTALA
Metavision's software (AR) for heavy equipment industry



PRIME SKILLS
Educational experience using AR and VR



SVARA
End to end broadcasting platform



TADO TV
Interactive story telling platform



MOMCHIPS
Fruit Chips Manufacture



BIOTECH
Research and Development for agricultural technology



LECTRO
Sillicone Battery Developing new battery using sillicone material



Flick
E-money that act as a walking ATM



SOCIABUZZ
Marketplace for creative talents and services



Thank You!

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