



Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation:

PS Code:626126

Problem Statement Title: Chicken disease detection

Team Name: Core

Team Leader Name: Shafqat Ameen Mir

Institute Code (AISHE): NA

Institute Name: Kalasalingam University

Theme Name:

Idea/Approach Details

Describe your idea/Solution/Prototype here:

The "Chicken Disease Detection" project aims to develop an innovative solution to safeguard poultry farming by utilizing advanced technology. Our prototype combines computer vision and machine learning algorithms to analyze images of chickens and identify potential signs of diseases. By capturing and processing visual data, the system can detect subtle symptoms such as changes in plumage, posture, or behavior, enabling early disease identification. This early warning system helps poultry farmers take prompt action to prevent disease outbreaks, ensuring healthier flocks and minimizing economic losses. Ultimately, our solution supports sustainable and efficient poultry farming practices, contributing to food security and animal welfare.

GlobeNewswire

Poultry Diagnostics Market Predicted to Reach \$1,142.5

Ensuring Global Poultry Health: Poultry Diagnostics Market Driven by Rising Demand for Early Disease Detection and Biosecurity Measures,...

25-Jul-2023

COHERENT
MARKET INSIGHTS

Poultry World

Biomarkers and machine learning give early warning system for poultry producers

An early-warning system based on blood biomarkers and big data techniques gives poultry producers greater insight into what happens in birds, giving them.

23-Mar-2023



Describe your Technology stack here:

- Machine learning
- Data science
- IOT sensors and cameras

Idea/Approach Details

Describe your Use Cases here

- **Automated Diagnostics**
- **Data-Driven Farm Management.**
- **Remote Monitoring.**
- **Vaccination Management**
- **Market Quality Assurance**

Describe your Dependencies / Show stopper here

- **Data Availability.**
- **Access to Poultry Farms.**
- **Sensor and Camera Deployment.**
- **Privacy and Data Security .**
- **Algorithm Accuracy**
- **Educating Farmers**

Team Member Details

Team Leader Name: Shafqat ameen mir

Btech(IT)

INFORMATION TECHNOLOGY

Year (II)

Team Member 1 Name: Gaznavie Ahad

Btech(CSE)

DATA SCIENCE

Year (II)

Team Member 2 Name: R.Kavyasri

Btech(IT)

INFORMATION TECHNOLOGY

Year (II)

Team Member 3 Name: G.Uday

Btech(CSE)

DATA SCIENCE

Year (II)

Team Member 4 Name: Sheik Abdul Rahuman M

Btech(CSE)

INFORMATION TECHNOLOGY

Year (II)

Team Member 5 Name: K.Satya Prakash

Btech(CSE)

AI & ML

Year (II)

Team Mentor 1 Name: P Rajkumar

Academic

Machine Learning and Deep learning

Domain Experience (2 years)

ALGORITHMS

- 01.Random Forest Algorithm
- 02.Regression Algorithm
- 03.Time series Algorithm
- 04.Anomoli Detection Algorithm
- 05.Encryption Algorithm
- 06.Hashing Algorithm
- 07.Precision Agriculture Algorithm