TRANSFORMING DATA INTO ACTIONABLE INSIGHTS FOR THE FUTURE

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INTRODUCTION

"Unlocking the Potential of AI: Revolutionizing Raw Data Analysis Across Agencies and Industries to Maximize Productivity" is an approach that utilizes artificial intelligence (AI) to revolutionize data analysis in government agencies and industries. AI, particularly machine learning algorithms, can automate and streamline the analysis of vast amounts of data, extracting valuable insights, patterns, and trends. Implementing AI-powered data analysis techniques offers benefits, such as accelerated analysis, faster decision-making, and uncovering hidden insights that may be challenging for human analysts. In government agencies, AI can be used to analyze large datasets related to public services, social issues, or policy-making, leading to improved resource allocation and citizen services. In industries like finance, healthcare, manufacturing, and marketing, AI can analyze customer behavior, optimize operations, detect anomalies or fraud, and develop targeted marketing campaigns, resulting in increased efficiency and customer satisfaction.

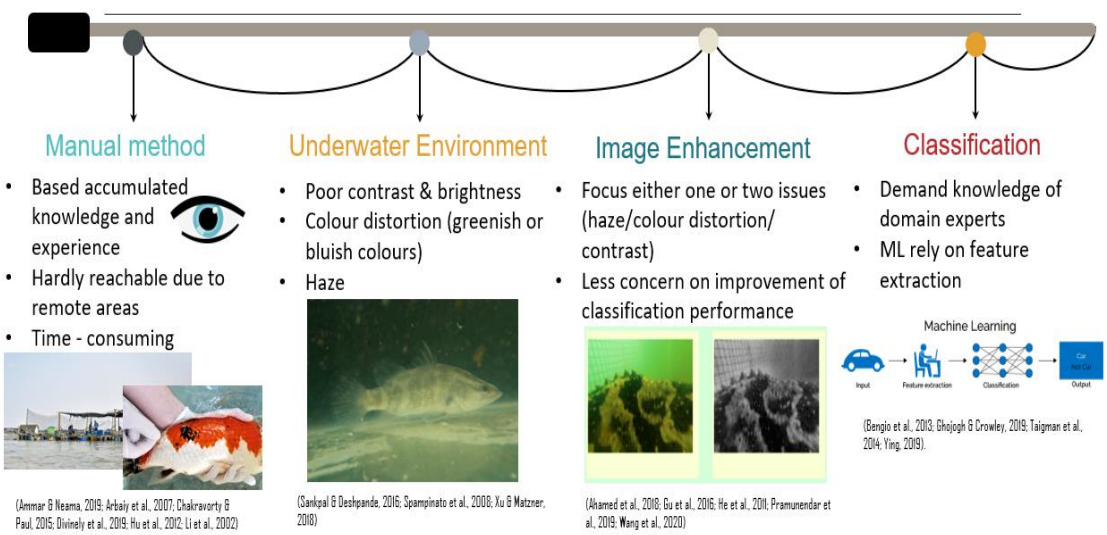
The main objective of this project is to develop an intelligent screening system for detection of region of interest (ROI) which constitutes of the following sub-objectives:

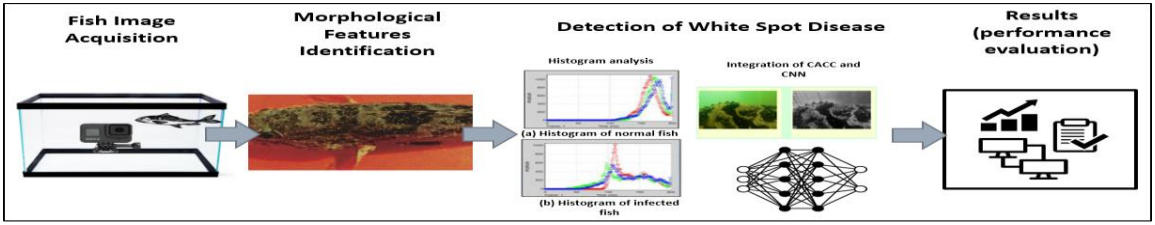
1. To **identify and implement digital image processing techniques** to improve the quality of the captured digital images.
2. To **develop features extraction algorithms** for extracting some useful features from the digital images.
3. To **develop a procedure** for identifying and counting of the ROI in the processed images.
4. To **evaluate the performance** of an intelligent screening technique for detection of ROI.

PROJECT 1: Automated intelligent screening system based on image enhancement technique and artificial neural network for fish disease detection

Problem & Solution

Automated Intelligent Screening System for Fish Disease





Conclusion

Manual screening process is time consuming, labour intensive and tedious which lead to poor screening results apart from difficulties in obtaining accurate results and preventing the early diagnosis.

The proposed system is developed into five phases; initial investigation, image acquisition, image segmentation, feature extraction, image classification, evaluation process.

This leads to greater accuracy in screening, increase in volume of slides screened, and automation of the screening process could reduce the eye strain in laboratory staff .

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