Prince Mohammad Bin Fahd University
CCES – Learning Outcome Assessment III
Advisor: Dr. Majid Ali Khan

Together towards a sustainable campus

# Underwater Exploration ROV for Fish Image Classification

## *Objectives:*

-This project aims to use a voice controlled ROV for underwater exploration.

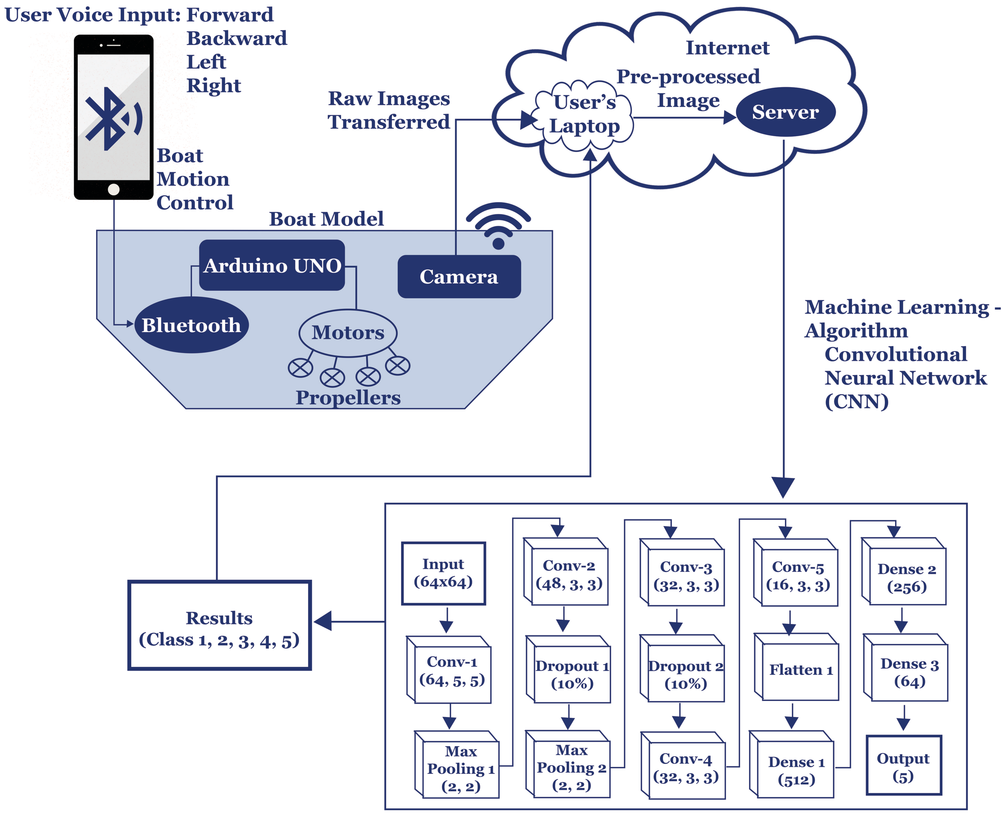
-The ROV will use a GoPro Hero 7 camera to capture images of fish at user defined time interval and transmit them to the remote server via wireless connection.

-The remote server will classify the fish species into one of five categories of fish using Convolutional Neural Networks.

## *Applications:*

-Environmental survey, observation, oceanographic research

-Cost effective solution for fish farmers to assure efficient harvest, healthy fish crop and environmental protection







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