**Title:** Deep Learning Based Cat Breed Classification

**Title ID:**

**Objective of the Project**: The main objective of this project is to classify different cat breeds using deep learning based CNN algorithm.

**Development Procedure:**

**System**

**User**

**1. System:**

* 1. **Create Dataset:**

The dataset containing images of different cat breeds are taken which are to be classified is split into training and testing dataset with the test size of 30-20%.

**1.2 Pre-processing:**

Resizing and reshaping the images into appropriate format to train our model.

**1.3Training:**

Use the pre-processed training dataset is used to train our model using CNN algorithm.

**2. User:**

**2.1 Register**

The user needs to register and the data stored in MySQL database**.**

**2.2 Login**

A registered user can login using the valid credentials to the website to use a application.

**2.1 About-Project**

In this application, we have successfully created an application which takes to classify the given images.

**2.2 Upload Image**

The user has to upload an image which needs to be classified.

**2.3 Prediction**

The results of our model is display of classified cat breeds.

**2.6 Logout**

Once the classification is over, the user can logout of the application.

**Results and discussion:**

In this application, we have successfully created a system that which is used to classify the cat breed images. This is mainly based on the CNN model. Here the dataset is considered, preprocessed and trained using the models.

The user, on other hand who is registered can allowed to view his/her uploaded images and classify the images.