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### Patent Search

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### Abstract:

This invention describes various approaches, as well as methods, systems, and media that can be read by computers, all with the goal of providing quick and accurate detection and classification in digital images. A computer device could, under some circumstances, be able to take an input picture. The picture may be processed on computer device, and a convolutional feature map can be produced as a result. It is possible, in some setups, to run the convolutional feature map through a Region Network (RPN) in order to create recommendations for potential objects that are located inside an image. In a number of different scenarios, the computing device is the convolutional feature map along with the proposals through a Fast Region-Based Convolutional Neural Network (FRCN) proposal classifier in order to identify a call each individual object contained within the image and a level of confidence associated with that particular category. A requestor may then get from the computing de output that includes the object categorization and/or confidence score.

### **Complete Specification**

Description:The present invention is related to real-time object recognition using Data Science and Machine Learning. Background of the invention:

The current innovation may be broadly categorized under the heading of "object recognition." Mobile gadgets of today, such as smartphones, tablets, mobile robots so on, may be outfitted with fast CPUs and sophisticated cameras, which enables mobile computer vision applications such as augmented reality, self-driving autor and robotic pets, among other things. Object recognition is at the heart of many of these apps and serves as their primary feature (i.e., running computer program identify objects in an image or video sequence).

Existing object recognition systems may make use of methods that are reliable when used in certain particular endeavours (e.g., wine label reading, product label re OCR-based language translation, etc.). Existing augmented reality (AR) systems integrate sensor approaches for context inference with computer vision algorithms f detection of picture objects captured by devices. These techniques are used together to create augmented reality. These systems are able to perform reliably in the assumption of specialized tasks or controlled environments (for example, matching test images to a set of training images that were taken under similar conditions same location and exist in an image database). This type of task or environment is known as a controlled environment.

The need for consumers to conduct searches that are both quicker and more comprehensive grows in tandem with the capabilities of search engines. Because of advancements in both camera technology and search capabilities, image searches are becoming an increasingly common practice. The use of a convolutional neura network is the method that is most often used for object identification in picture searches. In order to improve the precision of the object identification in certain method that is most often used for object identification in picture search to produce proposal pictures. This is done in an effort to expand the search space. Howe

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Application Details				
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TITLE OF INVENTION	The Impact of Statistics and Probability in real time object recognition using Data Science and Machine Learning			
FIELD OF INVENTION	COMPUTER SCIENCE			
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### **Application Status**

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