

CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s)	Project Number
Manooshree R. Patel	
	31310
Project Title	
Net the Net	
	$ \rightarrow $
Objectives/Goals Abstract	
Many internet surfers experience frustration and aggravation while u	using an internet search engine, from
the lack of correct result information or the numerous results that rar	k over ten million. Also the surfer
may want to search for images, but the image search engines, today,	search mages by the file name rather
than the visual content of the image. The objective of my project si	b determine whether search tips could
wants Also I wanted to know if by using internet search tins, the us	ar could get the same information and
same number of hits from each search engine. When searching for in	nages, Lypothesized that an
algorithm could be written which searches images by their image	ntent, ather than their file name.
Methods/Materials	
I developed 29 internet search tips (they consist of Bootean logic, sp which I used on four different search angines (Google Ring, Vibeo	OI) I recorded my data in a chart
and later converted it into a graph For images I developed an algorithm	thm which uses color location and
correlation of pixels in an image to determine if two images are view	ally similar or not.
Results	-
My graph showed that when using search tips, the number of search results in the search decreased a great deal During the time I use executing by search tips, the unious terms I learned that the information	
coming from each search engine was not the same. Also the number of search hits was not the same. I	
also designed an algorithm which finds image that are visually simi	lar, rather than having similarity of
file name.	
Conclusions/Discussion	
I concluded that internet search tips could reduce the number of search results and give the user the information that wanted. However, the user chest set get about the same number of hits or about the same	
type of information from each search agine. This makes my hypothesis partially correct. Lalso concluded	
that an algorithm could be written to rive the user images that are visually similar to their search. My	
project has a very practical application. Every day, millions of people all over the world use a search	
engine. My project will help then get the information they are looking	ng for without getting millions of
results back.	
Summary Statement	
This project determines if internet search tips could be used to reduc	e the number of search results and
bring more relevant information to the search and explores an image	searching algorithm that searches by
the visual similarity.	
Help Received	
My parents helped me organized the science board.	
The provide the organized the belence bound.	