RESEARCH INITIATIVE FOR STUDENTS OF ENGINEERING

**(RISE)**

Research Paper

**B. Tech**

|  |  |
| --- | --- |
| Name ,SAP ID, classof the Student(s) : | Abhishek Dubey 500040110  Computer Science and Engineering |
| Contact details (E mail/contact no.) of corresponding student/mentor | [Abhishekdubey.ad96@gmail.com](mailto:Abhishekdubey.ad96@gmail.com)  8057461363 |
| Name, SAP ID & Department of the Supervisor(s) : | Prof. Prem Kumar Ch  CIT |
| Title of the Research Proposal : | PANEL ARC – A Meta Search Engine |

**Application Form**

**(Submission Deadline: 11 September 2015)**

***Detailed Research paper should be attached with this application form and submitted in form of hard copy as well as electronically as single word/ pdf file to:***

[*rise@ddn.upes.ac.in*](mailto:rise@ddn.upes.ac.in)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **1.** | **Name:** | Abhishek |  | Dubey |  |
|  |  | *(First)* | *(Middle)* | *(Last)* | *(suffix)* |

**2. a) Citizenship: Indian**

**b) Date of Birth: 09/04/1996**

**c) Place of Birth:** Jhansi

**d) Passport No: (if available):**

**3. Present Address and Contact Information:**

|  |  |
| --- | --- |
| Address Line 1: | Ff15 Ambience Hostel, |
| Address Line 2: | suddhowalla,prem nagar, Dehradun |
| City: | Dehradun |
| State: | Uttra khand |
| Country: | India |
| Zip: | 248001 |
| Phone: | 8057461363 |
| E-mail: | abhishekdubey.ad96@gmail.com |

**4. Permanent Address:**

|  |  |
| --- | --- |
| Address Line 1: | 1241 Shivaji Nagar |
| Address Line 2: | Jhansi, UP |
| City: | Jhansi |
| State: | Uttar Pradesh |
| Country: | Indian |
| Zip: | 284001 |
| Phone: | 8057461363 |

**5. What is your current status in University of Petroleum & Energy Studies?**

√ B.Tech student

|  |  |
| --- | --- |
| Branch Name: | Computer Science and Engineering with Specialization in Oil and Gas Informatics |
| Semester: | 3rd Semester |

**6. Expected date of completion of degree: 05 (mm) 2018 (yy)**

**7. What is the earliest date you are available to begin the Initiative?**

**From 10th/September/2015 onwards.**

**8.**  **Educational Qualifications: List all schools, colleges, and universities you currently attend or have attended. Begin with the most current institution.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Institution Name, City,**  **State/Country** | **Dates Attended** (mm/yyyy, if currently attending, list current month and year)  **From To** | | **Major Field of Study** | **Degree Received/ Expected** | **Degree Date**  **Received/**  **Expected** (mm/yyyy) | **Cumulative GPA**  **or**  **% Marks** |
| Btech 1year in UPES Dehradun | 2014 | 2015 | cs- oil and gas | 2018 | 05/2018 | 3 / 4 CGPA |
| 12th  Army School Jhansi | 2013 | 2014 | Math’s | 2014 | 05/2014 | 87% |
| 10th Army School Jhansi | 2011 | 2012 | Math’s | 2012 | 05/2012 | 9.4 / 10 CGPA |

**9. What is your broad field of study?**

|  |  |
| --- | --- |
| ☐ Petroleum Engineering  ☐ Aeronautical Engineering  √ Computer Science  ☐ Geo Sciences  ☐ Mechanical Engineering  ☐ Mining Engineering  ☐ Petroleum Exploration | ☐ Basic Sciences (Chemistry/Physics/Mathematics)  ☐ Chemical Engineering  ☐ Energy Systems  ☐ Electrical Engineering  ☐ Pipeline Engineering  ☐ Process Design Engineering  ☐ Other :\_ with specialization in oil and gas informatics. |

**10. Major field of your study:**

Computer science and my research is based on the domain web development, SEO, web designing of search engine.

10. What is your broad field of study?

**11. Describe your current research interests:**

(Please write a maximum of 6 keywords)

*Meta search-engine with pictorial easy interface.*

**12. Research experience, technical background, other Initiatives, courses, lab work, techniques exposure (Please restrict your response to half page):**

Certified programmer of python.

Certified web developer and Web deginer.

Owner of website PANEL ARC http://www.panelarc.com/.

Good knowledge in managing database.

Good knowledge of C.

Good knowledge of HTML, XHTML, HTML5.

Good knowledge of PHP.

**13. List Awards/Honors and other recognitions:**

**1. 7th international mathematics Olympiad with 1st Rank in UP.**

**2. Awarded for the WEB DEVELOPMENT and WEB DEGINING.**

**3. Certified and awarded programmer of PYTHON.**

**14. Proposed research project idea and what you hope to gain from this Initiative experience**

**(Please restrict your response to half page):**

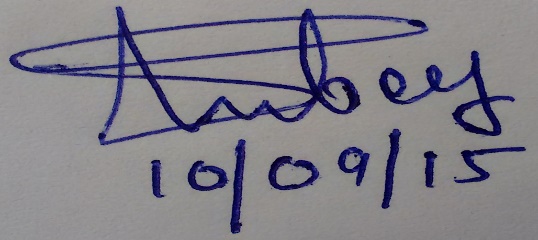
All other search engines are based on "type & search" principle, whereas PANEL ARC brings you a more easy & interactive "click & find" interface. And find things on other search engine is difficult for new comers. Panel Arc is made up of different panels which make it easy to find things. Also, unlike other engines, where you probe for the perfect official site, PANEL ARC instinctively bestows the most trusted official website all in a sole place. Moreover, you'll find the site to be a lot more pictorial in interface than any other search engines so far. This increases the knowledge about virtual world.

**15. Name, designation and department of the faculty who agrees to supervise the progress of your Initiative project (Reference letter indicating the willingness of proposed faculty mentor to supervise your Initiative must be submitted on the day of your application to:** [pkumar@ddn.upes.ac.in](mailto:pkumar@ddn.upes.ac.in) **)**

|  |  |
| --- | --- |
| Name of Supervisor | Prem Kumar Ch. |
| Designation | Assistant Professor |
| Department | CIT, CoES |
| Email | [chpremkumar@ddn.upes.ac.in](mailto:chpremkumar@ddn.upes.ac.in) |
| Phone number | 9557576829 |

**18. DECLARATION & CERTIFICATION OF ACCURACY**

1. I certify that to the best of my knowledge all information contained in this application is accurate. I understand that any falsification will render me ineligible for participation and, if found after participation has begun, may require me to reimburse any funds received. I also certify that the project work, if supported by RISE, will exclusively remain in-house activity of UPES. All the research work and analyses will be exclusively conducted within the campus of UPES and photographs and videos will be provided to the committee for the same.
2. I understand that the ownership of this research work and related possible publication lies with UPES. I will mention the name of mentor as author, and my affiliation as UPES in all future publications. Also, I will mention the financial support provided by RISE, UPES in these publications.



e- Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: (*mm/dd/yy)* \_\_\_09\_\_\_ / \_10\_\_\_\_\_ / \_\_2015\_\_

**PANEL ARC – A Meta Search Engine**

[**http://www.panelarc.com/**](http://www.panelarc.com/)

1. **ORIGIN OF THE PROBLEM:**

Search engines have come a long way since their early prototypes, as our Internet Search Engines History info - graphic illustrates. From improvements in web crawlers and categorizing and indexing the web, to introducing new protocols such as robots.txt so that webmasters have control what web pages get crawled, the development of search engines has been the culmination of multiple search technologies that developed from different search engines. Alta Vista was the first search engine to process natural language queries; Lycos started strong with a system categorizing relevance signals, matching keywords with prefixes and word proximity; and Ask Jeeves introduced the use of human editors to match actual user search queries. Modern search engines are pretty incredible – complex algorithms enable search engines to take your search query and return results that are usually quite accurate, presenting you with valuable information nuggets amidst a vast information data mine.

**The problem with today’s search engine arose when I went online to search a particular stuff but was not able to figure out where to start the search from. It was very confusing what keywords to type in the search box. Need for a suggestive visual interface arose at the very moment. Therefore, I thought of changing the conventional way of search engines, being “type and search”, to a more easy and interactive visual interface.**

**I want to change tradition of “type and search” to “click and search”.**

1. **OBJECTIVES:**

When you run your own website, especially at the end, it could create if you want to start a business. Get help with your website design and website is listed in search engines, use the search engine a good strategy for business web design and professional development, to be known. For a list of courses, the increasing number of visitors to this website for any SEO at the end. Internet marketing strategy focuses on search engines and use. Don’t you agree? Search engines have become one of the basic needs in our life. Thus, the website provides you a whole new platform and a whole new way to search the world. Also, the site aims at bringing a more interactive, smart and suggestive way of searching which not only includes the conventional ways but also provides you with a new “click & find” visual interface of the things that you want to search, even before you have started searching.

**All other search engine are taking into account "sort & look" rule, while PANEL ARC presents to you an all the more simple & intuitive "snap & discover" interface. Likewise, dissimilar to different motors, where you test for the ideal authority webpage, PANEL ARC instinctually offers the most trusted authority site all in a sole spot. Additionally, you'll observe the site to be a considerable measure more pictorial in interface than some other web crawlers in this way.**

1. **IMPORTANCE:**

Search engines are the foundation of the Internet. Most of the users will turn to a search engine as the quickest way of finding the information, or product that they want.

Even well-known brands still find that at least 30% of their visitors come via a search engine, rather than typing in the website address of the individual brand. The more obscure your product is, or the less well known your brand is, the more likely it is that you will need to rely on appearing in the search engine results to attract visitors to your site.

Search engines are the single largest source of web traffic. When people are looking for something online they go to a search engine first. Unless of course they know the site they want to go to and navigate directly to it buy typing their domain into the browser address bar. To market you business online you want internet users that don't know your site yet to be able to find you. And it’s through a search engine that they will find you. If the search engines don't know about your site, or even if they do but it’s not well optimized for your main search terms, then you miss out on that valuable traffic.

Search engine traffic is one of the most valuable sources of traffic, if not the most valuable. An internet user conducting a search has a specific intent. They are looking for something in particular. The website brings the near future today by taking a step ahead of present day search engines.

**All other search engines are based on "type & search" principle, whereas PANEL ARC brings you a more easy & interactive "click & find" interface. Also, unlike other engines, where you probe for the perfect official site, PANEL ARC instinctively bestows the most trusted official website all in a sole place. Moreover, you'll find the site to be a lot more pictorial in interface than any other search engines so far.**

**How PANEL ARC is important and different from other search engine.**

1. **In other search engine you have to TYPE then SEARCH.**

But in PANEL ARC you have to CLICK then SEARCH. In PANEL ARC all the things are pre-defined. All the things are given. We have a panel of all the data separately. Each data has his own section. You can find the things easily.

Let me give you one example. How many gaming sites you know 15, 20, 40 how much, it is difficult to learn all gaming sites. But in PANEL ARC all the gaming sites are given in the game section. You just have to click the site on which site you want.

That is why... Click is easier than type.

2**. Easily Accessible.**

Each day almost 5-6 billion people join the internet, they are new to the internet. They don’t know

How to use it.

Which sites are useful for them?

Which sites provide education?

From which site they have download the data.

And many more....

Google is too vast. It is difficult to find these information by new comer.

PANEL ARC is the platform from they can access the data easily. There are the panels for different work.

1. **Panels for online and offline streaming.**

Now a day there is problem of online TV. You have to go to different TV for different program which is difficult to remember.₹₹

For example if someone watch English TV they have to remember all different TV channels. Which is not easy.

It has its own movie panel. From where you can download movies free without visiting other sites. All kinds of movie are there in one panel.

IN PANEL ARC there is a separate panel for online TV, Movies, Game, and music. All the channels are here. No need to roam on other search engine. Just go through PANEL ARC.

**All the things are here in PANEL ARC.**

**But the thing is I’m fetching data from Google search engine.**

**Why give benefits from PANEL ARC to Google, for using his search engine.**

**That is why I want to make PANEL ARC as its own search engine.**

1. **METHODOLGY:**

Keyword searches have a tough time distinguishing between words that are spelled the same way, but mean something different (i.e. hard cider, a hard stone, a hard exam, and the hard drive on your computer). This often results in hits that are completely irrelevant to your query. Some search engines also have trouble with so-called stemming -- i.e., if you enter the word "big," should they return a hit on the word, "bigger?" What about singular and plural words? What about verb tenses that differ from the word you entered by only an "s," or an "ed"? Search engines also cannot return hits on keywords that mean the same, but are not actually entered in your query. A query on heart disease would not return a document that used the word "cardiac" instead of "heart."

This search engine is designed in such a way that keyword related problems are wiped out as the engine provides pictorial search option.

PANEL ARC is a website cum search engine pivoting to take a step forward of big brand search engines. Here, you find everything that you need from watching movies lounging in your room to travelling round the globe, shopping, socializing, entertainment, food, music, news, videos, software’s, education, jobs, live streaming, English & Hindi TV shows, sports, comedy, PC games and also a custom search box is just a few clicks away from you. Also you can effectuate your conventional google search on the website.

**All other search engines are based on "type & search" principle, whereas PANEL ARC brings you a more easy & interactive "click & find" interface. Also, unlike other engines, where you probe for the perfect official site, PANEL ARC instinctively bestows the most trusted official website all in a sole place. Moreover, you'll find the site to be a lot more pictorial in interface than any other search engines so far.**

1. **INSTRUMENTS USED:**

The basic requirement to build a search engine is knowledge and skill. A search engine fundamentally needs to accept some sort of search query (for instance, a series of words) and then return web resources that it thinks are appropriate to the query. The way it decides what is appropriate to the query can be very important. One can use a simple algorithm like counting how many times any of the search words appears on a page. Google uses sophisticated techniques, including investigating the pages that link to a given page.

The building of the website required a device for coding, e.g. a computer, software’s like **Dreamweaver, visual studio, WordPress** etc. Also, most importantly the skill and knowledge to write the algorithm in different languages like **HTML5, JAVA SCRIPT, PHP** etc. and compiling them altogether. Furthermore, to bring your engine to the world, I required internet and servers for uploading the website on a server and then buying a domain for it.

1. **EXISTING FACILITIES IN UPES:**

Internet facilities provided by UPES in working hours.

The official website of the education institute UPES, “[www.upes.ac.in](http://www.upes.ac.in)”, also have a search engine which provides a limited search over the database of their own education. PANEL ARC is a general search engine which is not confined to any particular kind of search.

1. **SCHEDULE OF ACTIVITY:**

The designing of the website consumed a timespan of about 2 months. The website once uploaded to the server works 24x7, all day night long. The website is accessible all over the globe from any location, at any instant of time working 24 hours.

1. **BUDGET:**

The website cost includes:

* Buying of domain for the website and;
* buying web space (server) for database from godaddy, approximately ₹ 3500;
* buying access to the Google’s custom search from godaddy, approximately ₹ 2500
* Software’s and image cost, approx. ₹ 4000.
* Database management and source cost near about ₹ 10000.
* **OVERALL BUDGET IS APPROXIMATELY ₹ 25000.**

**10. FUTURE SCOPE OF THE WORK:**

Everyone knows that Search Engines have become so sophisticated in the past couple years that it knows what you want better than you know it yourself. Search engines have slowly evolved from performing merely keyword based searches to intelligent knowledge engines. The future of search engine is still uncertain, but it is surely going to impact many aspects of our daily life. The website provides a new way to search and find the desired content. PANEL ARC is a website cum search engine pivoting to take a step forward of big brand search engines. Here, you find everything that you need from watching movies lounging in your room to travelling round the globe, shopping, socializing, entertainment, food, music, news, videos, software’s, education, jobs, live streaming, English & Hindi TV shows, sports, comedy, PC games and also a custom search box is just a few clicks away from you. Also you can effectuate your conventional google search on the website. In the bright future, it may take over all the present day search engines and may evolve as the biggest search engine just like the way google began in March 1995 as a research project by **Larry Page** and **Sergey Brin**.

**11. LETTER OF CONSENT FROM MENTOR:**

PANEL ARC is a site cum web crawler rotating to make a stride forward of huge brand web indexes. Here, you discover everything that you require from watching motion pictures relaxing in your space to going round the globe, shopping, mingling, stimulation, nourishment, music, news, features, virtual products, training, occupations, live streaming, English & Hindi TV shows, sports, comic drama, PC recreations furthermore a custom inquiry box is only a couple clicks far from you. Likewise you can effectuate your traditional google look on the site.

All other web indexes are taking into account "sort & look" rule, while PANEL ARC presents to you an all the more simple & intelligent "snap & discover" interface. Likewise, not at all like different motors, where you test for the ideal official webpage, PANEL ARC intuitively gives the most trusted official site all in a sole spot. Additionally, you'll observe the site to be a great deal more pictorial in interface than some other web indexes in this way.

I am PremKumar Ch. Working as an Assistant Professor in CIT, CoES, UPES, I am guiding a research project for CIT student which requires financial assistance for 25000/-. It is my humble request to kindly allow for the financial assistance so that the project could be completed on time. Feasibility study is attached with this letter.

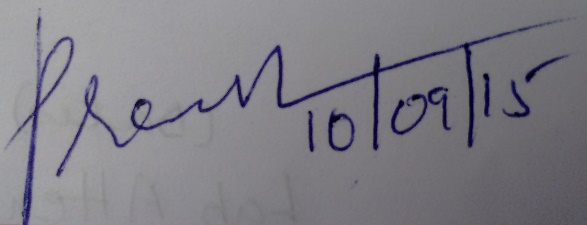
Thanking you,

With regards

Prem Kumar Ch.

Assistant Professor

CIT, CoES, UPES.



\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Signature)