

An Analysis of Profile Management System with Special Reference to VIDWAN Database

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Abstract

The Profile Management system is a web-based tool to organize research activities carried out by a researcher such as interests, skills, experience, expertise, mentor, projects, publications, etc. The profile management system acts as a knowledge management as well as discovery tool for about the researchers, faculty members and scientists of an Institution or across the Institution. This paper examines the Vidwan expert's database of scientists / researchers and other faculty members of Indian Institutions. INFLIBNET Centre has taken an initiative to develop the Indian Experts Database called Vidwan and now it is available for the public in free of cost to identify the subject experts for the respective fields. The Indian experts database Vidwan has 23000+ experts in various subject's category. The study focuses on Organizations category wise experts, subject wise experts, experts of state universities of top ten states, experts of top ten TamilNadu State Universities, experts of top ten subjects of Tamil Nadu State Universities and experts by top ten designations of TamilNadu State Universities in Vidwan database.

Keywords: Experts Database, Profile Management System, Vidwan Database

1. Introduction

The Profile Management System is a web-based tool to consolidate the scholarly communication activities of the faculty / Scientist. The system collects the scholarly data from various sources such as course management, grant and award management system, open and proprietary citation database, institutional repositories etc. The system facilitates to discover and connect with the research partners among the similarly interested group to address the research challenges. The Profile Management System is also acts as a discovery tool to locate an expert based on scholarly communication activities.

1.1 Needs of Profile Management System

The following are the important needs of Profile Management System for the institutions and individuals

- ❖ To know the Research capabilities of the Institutions.
- ❖ To connect the Researchers based on their research interests.
- ❖ To know about the researcher's interest, skills, experience, projects and other scholarly activities based on the institutions.
- ❖ To increase the funding opportunity for research projects.



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1.2 Features of Profile Management System

The following are the important feature of profile management system

- ❖ Faster logon times
- ❖ Inclusion by default
- ❖ Profile size control
- ❖ Robust profiles
- ❖ Detailed reports
- ❖ Easy to implement and simple to maintain

1.3 VIDWAN

VIDWAN is the expert's database of scientists / researchers and other faculty members working at leading academic Institutions and other R & D organization involved in teaching and research in India. It provides the expert's information about education background, contact address, experience, scholarly publications, skills and accomplishments, researcher identity, etc. VIDWAN database is developed and maintained by Information and Library Network Centre (INFLIBNET) and supported by National Mission on Education through ICT (NME-ICT). This database will be useful in selection of panels of experts for various committees, taskforce and to identify the subject experts in respective filed.

We acknowledge with our sincere thanks for the efforts taken by the INFLIBNET centre for the initiation of this wonderful project called VIDWAN for the National benefit and also provided the data in open access. We also thank the INFLIBNET center for provided data (<http://vidwan.inflibnet.ac.in>) for the compilation of this research paper.

2. Review of Literature

Panda, S. K. & Kannan, P. (2016) an excellent source of background information of subject experts working at leading academic institutions and R & D organizations involved in teaching and research, provides a platform for finding potential experts with similar expertise. This paper aims to explore the application of emerging technologies in VIDWAN subject expert database and discusses particularly about the expert's selection methods, database feature and functionalities and its benefits. The article reviewed the current situation of the VIDWAN subject expert database and national researcher's network in India and recommends that it is the time to populate the database not only in India but also worldwide and in all scientific areas. Universities, R & D organizations and other academia too have an important role in populating this database. Leslie McIntosh, Nick Cappadona, Manolo Bevia and Cramer, E. J (2010) focused on technical innovation related to biomedical research towards the sharing of data, ancillary information and collaboration among researchers across a variety of disciplines. VIVO has been designed to address these needs and also to understand the process of achieving collaboration and to assess and improve VIVO.

3. Objectives of the Study

The major objectives of the study are

- ❖ 80%
- ❖ To find out the organization category wise experts of Vidwan database
- ❖ To identify the subjects wise Experts of Vidwan database

- ❖ To analyze the experts of State Universities of Top Ten States
- ❖ To analyze the experts by top ten Tamil Nadu State Universities in Vidwan database
- ❖ To investigate the experts by subjects of Tamil Nadu State Universities
- ❖ To analyze the experts by top ten designations of TamilNadu State Universities

4. Methodology

The data were collected from Vidwan database (<http://vidwan.inflibnet.ac.in>) for this study during March 10 2017. There were about 23278 Experts in the Organizations categories. Out of which 23278 experts the State Universities category shows that 6468 experts in Vidwan database. Further this data were analyzed by Organization categories, subject wise experts, top ten state wise experts, experts of top ten Tamil Nadu State Universities, experts of top ten subjects of Tamil Nadu State Universities and experts by top ten designations of TamilNadu State Universities and also used simple calculation and percentages.

5. Data Analysis

The collected data were analyzed by using simple calculation method and Ranked.

5.1. Experts by Organization Categories

Vidwan database were analyzed Experts by Organization categories and the same is given in Table 1.

Table 1: Experts by Organization Categories

Sl. No.	Organization Category	No. of Experts	%	Rank
1	State University	6468	27.78	1
2	Institute of National Importance	6387	27.43	2
3	Central University	3806	16.35	3
4	Deemed University	2316	9.94	4
5	Other Institute	2002	8.60	5
6	R & D Organization	1338	5.74	6
7	Technical Institute	961	4.12	7
	Total	23278	100	

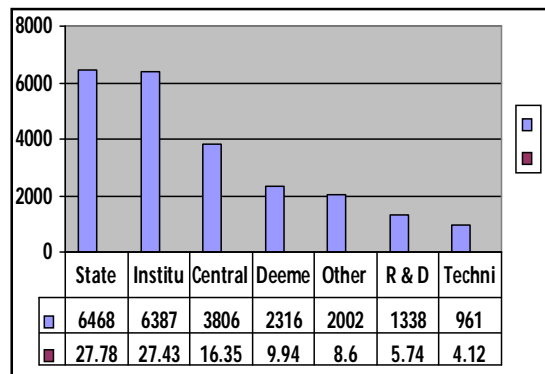


Figure 1: Experts Contribution by Organization Categories

It is found from Table 1 and figure 1 that the State University 6468(27.78%) has large number of experts in the Vidwan database and placed first rank. It is further found that Institute of National Importance 6387(27.43%) experts occupied second rank and followed by The Central University 3806(16.35%) experts and placed third rank. It is also indicated that Deemed University has 2316(9.94%) experts and placed fourth rank and it is followed by Other

Institute 2002(8.60%), R&D Organization 1338 (5.74%) and Technical Institute 961(4.12%) placed fifth, sixth and seventh ranks respectively.

5.2. Subject wise Experts

The study was analyzed the subject wise experts in Vidwan database. And the same is given in Table 2.

Table: 2 Subject wise Experts

Sl. No	Name of the Subject	No. of Records	%	Rank
1	Engineering & Technology	6278	27.12	1
2	Social Sciences	3685	16.70	2
3	Medical & Health Sciences	3311	14.30	3
4	Physical Sciences	2943	12.71	4
5	Agricultural Sciences	2604	11.25	5
6	Chemical Sciences	1839	7.94	6
7	Arts & Humanities	1338	5.78	7
8	Biological Sciences	1145	4.94	8
	Total	23143	100	

It is found from Table 2 that the Engineering & Technology has 6278(27.12%) experts in Vidwan database and placed first rank. It is followed by Social Sciences 3685(16.70%), Medical & Health Sciences 3311(14.30%) and placed second and third rank. It is also found that 1338 (5.78%) experts in Arts & Humanities and 1145(4.94%) of experts in Biological Sciences placed seventh and eighth rank. It is observed that there is a vast difference in the experts by the subjects.

5.3. Experts by State Universities of Top Ten States

The experts by state universities of top ten states in the Vidwan database were analyzed and the same is given in Table 3.

Table: 3 Experts by State Universities of Top Ten States

Sl. No.	Name of the Sate	No. of Experts	Top Ten %	Over All%	Rank
1	Tamil Nadu	816	19.79	14.73	1
2	West Bengal	685	16.61	12.37	2
3	Maharashtra	620	15.04	11.19	3
4	Gujarat	460	11.15	8.03	4
5	Karnataka	402	9.75	7.26	5
6	Punjab	381	9.24	6.88	6
7	Uttarakhand	249	6.04	4.49	7
8	Haryana	196	4.75	3.53	8
9	Andhra Pradesh	182	4.43	3.28	9
10	Uttar Pradesh	131	3.17	2.36	10
	Total	4122	100	100	

Table 3 describes that the experts by State Universities of top ten states and Tamil Nadu has placed first rank with 816(19.79%) experts, which is followed by West Bengal 685(16.61%), Maharashtra 620(15.04%), Gujarat 460(11.15%), Karnataka 402(9.75%). Uttar Pradesh has less number of 131(3.17%) experts and placed in tenth rank. The results of the study clearly indicate that other States to be encouraged the state university experts to join in VIDWAN.

5.4. Experts by Top Ten Tamil Nadu State Universities

The experts by top ten Tamil Nadu State Universities in the Vidwan database were analyzed and the same is given in Table 4.

Table: 4 Experts by Top Ten Tamil Nadu State Universities

Sl. No.	Name of the State University	No. of Experts	%	Rank
1	Annamalai University	259	31.74	1
2	Anna University	137	16.78	2
3	University of Madras	119	14.58	3
4	Tamil Nadu Rice Research Institute	71	8.70	4
5	Bharathiar University	32	3.92	5
6	Periyar University	32	3.92	5
7	Alagappa University	29	3.55	7
8	Bharathidasan University	24	2.94	8
9	Madurai Kamaraj University	20	2.45	8
10	Manonmaniam Sundaranar University	18	2.20	10
	Over All Total	816	100	

It is witnessed from Table 4 that Annamalai University has contributed 259(31.74%) experts and placed first rank in Tamil Nadu State Universities. Further, it is found that the remaining nine Tamil Nadu State Universities were contributed less than 150 experts and it ranges from 137 (16.78%) to 18 (2.20%). It is also inferred that there is no vast difference in contribution of experts among the State Tamil Nadu Universities.

5.5. Experts by Subject wise of Tamil Nadu State Universities

The study was analyzed the experts by Subject wise of Tamil Nadu State Universities in Vidwan database.

Table: 5 Experts by Subject wise of Tamil Nadu State Universities

Sl. No.	Name of the Subject	No. of Experts	%	Rank
1	Engineering & Technology	173	21.20	1
2	Agricultural Sciences	140	17.15	2
3	Social Sciences	139	17.03	3
4	Medical & Health Sciences	84	10.29	4
5	Biological Sciences	81	9.92	5
6	Physical Sciences	81	9.92	5
7	Chemical Sciences	73	8.94	7
8	Arts & Humanities	44	5.39	8
	Over All Total	816	100	

Table 5 shows that Engineering & Technology subject has 173(21.20%) experts, which is followed by Agricultural Sciences 140(17.15%), Social Sciences 139(17.03%), Medical & Health Sciences 84(10.29%), Biological Sciences 81(9.92%), Physical Sciences 81(9.92%), Chemical Sciences 73(8.94%) and Arts & Humanities 44(5.39%). It is inferred that last four subjects has less than 10% of experts, whereas the first four subjects has more number of experts of Tamil Nadu State Universities compared to other Tamil Nadu State Universities.

5.6. Experts by Top Ten Designations of Tamil Nadu State Universities.

The study was analyzed the experts by top ten designations of Tamil Nadu universities in Vidwan database and the same is given in Table 6.

Table 6: Experts by Top Ten Designations of Tamil Nadu State Universities

Sl. No.	Name of the Designation	No. of Experts	%	Rank
1	Professor	378	46.32	1
2	Associate Professor	214	25.85	2
3	Professor and Head	101	12.37	3
4	Assistant Professor	32	3.92	4
5	Associate Professor and Head	12	1.47	5
6	Director	9	1.10	6
7	Head of the Department	5	0.61	7
8	Deputy Librarian	4	0.49	8
9	Assistant Professor and Head	3	0.36	9
10	Dean	3	0.36	9
	Over All Total	816	100	

Table 6 indicates that the Professor Category has good number of experts 378(46.32%) and placed first rank, it is followed by Associate Professor Category 214(25.85%), Professor and Head Category 101 (12.37%) and Professor and Head Category 32(3.92%) placed second, third and fourth rank. It is found that the Assistant Professor Category 32(3.92%), Associate Professor & Head Category has 12 (1.47%) experts and placed fifth and sixth rank. It is found that the remaining four Designations

of Tamil Nadu State Universities were contributed less than 9 experts and it ranges from 5 (0.61%) to 3 (0.36%).

6. Conclusion and Recommendation

Profile Management System is playing the important role in exhibiting the faculty member's research in an institution and also the outside world. Based on these thrust INFLIBNET has developed the wonderful profile management system and expert database of Indian subject experts from all over the nation. The followings are the major findings of this study.

- ❖ It is found that 27.78% of experts by State University in organization categories.
- ❖ It is found that 27.12% of experts are in Engineering and Technology subjects.
- ❖ It is found that 19.79% of experts by State of Tamilnadu by state university wise.
- ❖ It is found that 31.74% of experts by Annamalai University of Tamilnadu.
- ❖ It is found that 21.20% of experts in Engineering & Technology of Tamil Nadu State Universities in Vidwan database.
- ❖ It is found that 46.32% of experts in professors category of Tamil Nadu State Universities.

The study recommends that experts database contribution by the universities, colleges and research centre's are to be made as compulsory for the continuous growth and also the contributions by the subject experts should be based on the higher

authority's approval for the authentication and up-to-date information by any Institution.

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