

Dr. NISHANT KUMAR

Assistant Professor,
Department of Computer Science & Engineering,
Faculty of Engineering Technology,
Gurukula Kangri (Deemed to be University)
22, Gulab Bagh, Kankhal, Haridwar -249408 Uttarakhand (India)
nishant@gkv.ac.in, +91-8979798008, www.nishantmunjal.com

EXPERTISE

An avid and keen researcher with over five years of teaching experience in the field of computer science. Rich experience web application designing. A great team worker with motivational skill, enabling knowledge sharing within and across teams.

WORK EXPERIENCE

- ❖ Working as Assistant Professor in CSE Dept. of Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya, Haridwar.
Date of Joining: 31/07/2012 (As Permanent Employee)
- ❖ Worked as Assistant Professor in CSE Dept. of Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya, Haridwar.
Term: 20/10/2010 – 30/07/2012 (As Contractual Employee)

MEMBERSHIPS

- ❖ Member of Computer Society of India.
- ❖ Member of India Science Congress Chapter Haridwar.

RESEARCH PAPERS PUBLISHED

Journal

- ❖ Sunil Kumar, N. Kumar, M. Aggrawal & Vikas Deshwal, "**Optimisation and prediction of Karanja oil transesterification with domestic microwave by RSM and ANN**", International Journal of Ambient Energy, DOI: 10.1080/01430750.2020.1848919
- ❖ N. Kumar and R. Kumar, "**Scheduling of tasks (Cloudlets) in heterogeneous processing cloud environment**," Int. J. Emerg. Technol., vol. 11, no. 3, pp. 417–421, 2020
- ❖ N. Kumar, R. Kumar, "**Energy Efficient Host Overloading Detection Algorithm in Cloud Computing**" published in International Journal of Computer Sciences and Engineering, Volume 6, Issue 7, July 2018, E-ISSN 2347-2693.
- ❖ Kumar Nishant, R. Kumar, M. Aggarwal, "**Energy Efficient DVFS with VM Migration**" published in European Journal of Advances in Engineering and Technology, Volume 1, 2018 [61-68], ISSN 2394-658X.
- ❖ M. Aggarwal, N. Kumar, R. Kumar, "**Optimized Cost Model with Optimal Disk usage for Cloud**" published in Big Data Analytics, Advances in Systems and Computing, 2018.
- ❖ Paper titled "Virtualization: Technology Helping Environment" published in Essence – International Journal for Environmental Rehabilitation and Conservation", Volume VI: No. 1 2015[58-62], ISSN 0975-6272.
- ❖ Paper titled "A Comparative Analysis of Scheduling Algorithms affecting QOS in Cloud Environment", published in "International Journal of Computer Science and Network", ISSN 2277-5420, Volume 4 Issue 1, February 2015.

- ❖ Paper titled “An Application Deployment to Openshift Cloud Using Existing GIT Repository from Local Client”, published in “International Journal of Engineering And Computer Science”, ISSN 2319-7242, Volume 4 Issue 1 January 2015
- ❖ Paper titled “Review of Research Issues in Cloud Computing” published in Scopus Indexed Journal “International Journal of Applied Engineering Research (IJAER)”, Volume 9, Number 21, 2014.
- ❖ Paper titled “Virtualization: A Concept Implementation for cloud” published in “International Journal of Engineering and Technical Research (IJETR)”, ISSN no 2321-0869, Volume-2, Issue-3, March 2014.
- ❖ Paper Titled “Swami Shradhanand aur Gurukula ko Janm Dene Wali Paristhitiyan”, published in Refereed Journal “Gurukula Shodh Bharti”, Volume 20, P224-228, September 2013, ISSN/ISBN no 0974-8830.
- ❖ Paper Titled “Computer Science and Sakaratmak Chintan (p211-213)” published in Refereed Journal “Gurukula Shodh Bharti”, Volume 18, P211-213, September 2012, ISSN/ISBN no 0974-8830.

Conference

- ❖ Paper titled “Cloud Providers Analysis and Comparison”, presented in National Conference on Science & Technology for Indigenous Development in India, September 2015, held at Faculty of Engineering & Technology.
- ❖ Paper titled “Implementing Software as a Service Made Easy”, presented in National Symposium NSI-39, in Oct 2014, held at Faculty of Engineering and Technology, Gurukula Kangri Vishwavidyalaya.
- ❖ Paper titled “Implementing Software as a Service Made Easy” in National Seminar of “NSI-39”, held at Faculty of Engineering and Technology, Gurukula Kangri Vishwavidyalaya.
- ❖ Paper titled “Automated Cloud Labs”, published in Regional Symposium on “Technovations for inclusive human development”, 2014, held at Faculty of Engineering and Technology, Gurukula Kangri Vishwavidyalaya.
- ❖ Paper titled “Human Recognition System by using Hand Geometry” published in national conference “ETES-2013”, November 2013, held at Faculty of Engineering and Technology.
- ❖ Paper titled “An Overview of Deadlock detection in distributed database systems” published in national conference “ETES-2013”, November 2013, held at Faculty of Engineering and Technology.
- ❖ Paper titled “Comparative Study of Cloud Computing and SOA” published in national conference “ETES-2013”, November 2013, held at Faculty of Engineering and Technology.
- ❖ Abstract titled “Environmental Hazards of Internet Usage : Searching and Surfing”, published in National Conference on “ Green Technologies for Environmental Rehabilitation”, February 2012, held at Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya, Haridwar.
- ❖ Abstract titled “Sensor Networks: Attacks and Counter Measures”, published in National Conference on “Green Technologies for Environmental Rehabilitation”, February 2012, held at Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya, Haridwar.
- ❖ Abstract titled “Green Computing: An Indian Perspective”, published in International Conference on “World Congress for Man and Nature”, November 2011, held at Gurukula Kangri Vishwavidyalaya.
- ❖ Paper titled “Analysis of RSA and DES Algorithm Based on Encryption Time” presented in National Conference on “INNOVATIONS AND APPLICATION IN ENGINEERING AND APPLIED SCIENCES”, November 2011, held at Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya, Haridwar.

- ❖ Paper titled “Artificial Neural Network Applications in Air Quality Monitoring and Management” published in “International Journal for Environmental Rehabilitation and Conservation”, Volume II No. I 2011 [30-64], [ISSN 0975-6272].

LECTURE DELIVERED

- ❖ **Topic:** E-Content development and online teaching
Date: 4th-8th, August 2020
Organized by: IQAC, Sahoo Ram Swaroop Mahila Mahavidyalaya, Barilley (UP)
- ❖ **Topic:** Modern Methods for Remote Teaching – Learning Practices,
Organized by: Faculty of Engineering and Technology, Gurukula Kangri (Deemed to be University), Haridwar
- ❖ **Topic:** Research Methodology and ICT Tools
Date: 14th to 20th June 2020
Organizer: Dr. Janak Singh, Socio Cultural Education Society, Bareilly, UP, India.
- ❖ **Topic:** Empowerment through Digitization
Date: 15th to 17th September 2020
Organizer: IQAC, Institute for advanced studies in Education, Bilaspur, Chhattisgarh.

WORKSHOP AND SHORT-TERM COURSE ATTENDED

- ❖ Two Weeks Faculty Development Program from 8th-19th June 2020 on “Emerging Research trends in Computer Science and IT”, organized by BVICAM, New Delhi
- ❖ One week Online Short-Term Course “Blockchain and Machine Learning” from 29th-3rd July 2020, organized by Gurukula Kangri Vishwavidyalaya in Collaboration with IBM and AICTE.

REVIEWER

- ❖ 2020 International Journal of Ambient Energy, Taylor and Francis.
- ❖ 2020 ICDMAI Conference organized by Society for Data Science.
- ❖ 2020 ICCDE-2020 International Conference on Emerging Digital Era.

RESEARCH PROJECTS

- ❖ **Grievance Portal (grievance.gkv.ac.in)**
This portal provides facility to the university to take the grievances from student and teachers and provide the complete resolution. If any authority is not able to resolve this then it can be forwarded to the upper authorities for the resolution.
Front-End: PHP, AJAX, CSS.
Database: Mysql
- ❖ **Communication Portal**
Unique communication portal to communicate with students and colleagues in the Faculty, with the option of Email and SMS currently. Motive behind this application is to encourage teachers to spread the knowledge in terms of notes etc and to pass important information to all.
Front-End: PHP, AJAX, CSS, Angular JS

Database: Mysql, **Framework:** CakePHP

❖ **Authentication Portal**

This is single sign-on service to handle authentication for all applications in Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya.

Front-End: PHP, AJAX, CSS, Angular JS

Database: Mysql

Framework: Laravell

❖ **ONLINE EXAM/SESSIONAL PORTAL (Currently Working)**

The motive behind this to take sessional exam online to cut the use of papers and help environment to be green. This software will take all sessional/objective quizzes online. And this will be open for all on cloud, so that anyone can use it in free. To help nations other colleges and institutes to upgrade and save paper.

Front-End: PHP, AJAX, CSS, Angular JS

Back-End: MONGODB (Object Oriented Database)

Framework: CAKEPHP (MVC Architecture)

❖ **CLOUD LAB ESTABLISH**

Partially cloud lab is established for the motive to provide students exposure of cloud, a recent technology. Through this we can use any platform on any system. This is currently as PAAS services only.

Tools: UNIX

❖ **UNIX LAB ESTABLISH**

Laboratory established to provide the students an environment of UNIX which is require to understand the computer processes in details. Through this anyone can write and execute their programs thru intranet. It is running from 2013 in Department of Computer Science & Engineering, Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya.

Tools: UNIX

❖ **FACULTYPOLL**

This is software of polling. Our students giving their votes to the favourite teachers they like. The motive behind this to cut the papers use for votes, to help environment to be green.

Front-End: PHP, AJAX, CSS

Database: MYSQL

Framework: CAKEPHP (MVC Architecture)

❖ **COLLEGE ADMISSION PORTAL**

This is a college admission portal which helps in searching records and sorting records for the reports of admissions. Faculty of Engineering Technology, Gurukula Kangri Vishwavidyalaya.

Front-end: PHP, AJAX

Database: MYSQL

Framework: CAKEPHP (MVC Architecture)

❖ **PERFORMANCE ANALYSIS OF RSA AND SWAPPING ALGORITHM IN STEGANOGRAPHY**

The study provides the performance analysis of two well-known security algorithms RSA Algorithm and Swapping (DES) Algorithm in Steganography, in terms of speed, memory and security. And the results have been defined through time and memory graphs.

Environment: Windows

Programming Language: Java

❖ TOURIST GUIDING SYSTEM

The project is the simulation of a Travel & Touring Portal. Here a visitor who wants to travel from one place to another can select the source city & the destination city. This can be done by selecting the required cities on the visual route map using the provided radio buttons. A confirmation window is displayed for every input of the user. Finally an output is generated in visual form which tells the shortest path to reach the destination through other cities.

Dijkstra's Algorithm is used to calculate the shortest path.

Environment: Windows

Programming Language: VC++.

TECHNOLOGY AND PRODUCT EXPERTISE

- ❖ **Programming Languages:** C, C++, PHP, AJAX, Javascript, JQuery
- ❖ **Database:** MYSQL, MONGODB (Object Oriented Database)
- ❖ **Operating Systems:** CentOS 6.5, Windows 10, Mac OSX
- ❖ **Web Server:** Apache
- ❖ **Tools:** WAMP, MAMP, DREAMWEAVER, SQLYOG, MONGODB, ROBOMONGO, GIT, SUBLIME, MYSQL WORKBENCH 6.
- ❖ **Framework:** CakePHP

EDUCATIONAL QUALIFICATION

Doctorate in Computer Science Gurukula Kangri University	AUG2020
Master of Technology in Computer Science and Engineering SRM University, Chennai (TN) with 8.6 CGPA	MAY2010
Bachelor of Technology in Computer Science and Engineering Faculty of Engineering & Technology, Gurukula Kangri University, Haridwar with 71%	JUNE 2008

AREA OF INTEREST

Computer Networks, Web Development, Cloud Computing, Machine Learning

EXTRA-CURRICULAR ACTIVITIES

- ❖ Worked as the member of transportation committee in an International Conference, "**GTER-2012**" held at Gurukula Kangri Vishwavidyalaya.
- ❖ Worked as the member of organizing committee in National Conference, "**IAEAS-2011**" held at Gurukula Kangri Vishwavidyalaya.
- ❖ Worked as the convener paper presentation in an International Conference "**WCMANU-2011**" held at Gurukula Kangri Vishwavidyalaya.

- ❖ As the members in organizing committee in **“Jananagni '07”**, a national level technical fest.
- ❖ As Editor in the college newsletter **“PRATIBIMB”**.
- ❖ **Volunteer participation** in the mass awareness campaign against cancer conducted by **Cancer Aid Society, Hardwar**.
- ❖ Awarded by 3rd rank in the 5th **National Youth Parliament** competition held in year 2007.
- ❖ In the year 2006, **participated** in the **International Conference on Canadian Studies** organized by the Department of Foreign Affairs and Trade, Govt. of Canada and Gurukul Kangri University Haridwar, as student, Member of the organizing committee.

PERSONAL DETAILS

Date of Birth	:	29, December 1987
Language Known	:	English & Hindi