1. Basic Information

* Name: Sunil Kumar Dewangan
* Designation: Assistant Professor and Head Dept
* Department/School: Information Technology
* Institution Name: SSIPMT, Raipur
* Email ID: s.dewangan@ssipmt.com
* Contact Number: 9826389259
* Photograph: 

2. Educational Qualifications

|  |  |  |  |
| --- | --- | --- | --- |
| Degree | Specialization | Institution | Year of Completion |
| UG | Computer Science & Engineering | Govt. Engineering College, Raipur | 2008 |
| PG | Computer Science & Engineering | Raipur Institute of Technology, Raipur | 2014 |
| Ph.D. | Computer Science & Engineering | Kalinga University, Raipur | 2025\* |
| Others | *(if applicable)* |  |  |

3. Teaching & Research Experience

* Total Teaching Experience: 16.5 years
* Industry Experience: *(if any): 1.5 years*
* Research Experience: 5 Years

4. Courses Taught: UG, PG

* List of key UG/PG courses taught: Data Structures, Operating System, Artificial Intelligence, Deep Learning, CSA, Internet and Web Technologies.

5. Research Interests / Specialization: Machine Learning, Soft Computing

* Key thematic areas or domains of expertise

6. Publications (Last 5 Years)

* **Journals (APA/IEEE format)** :
* KV Sunil Kumar Dewangan, Aryan Soni, Muskan Verma (2024). AMERICAN SIGN LANGUAGE DETECTION USING TENSORFLOW. Journal of Nonlinear Analysis and Optimization 15 (1), 95-100.
* Dewangan, S. K., Pathak, A., Raheja, V., Shende, H., Verma, C., & Jain, S. (2023). A comprehensive study on blockchain technology. *Mathematical Statistician and Engineering Applications*, *72*(1), 462-469.
* **Conference Proceedings**:
* Pathak, A., Dewangan, S. K., Sahu, M. K., Gayatri, M., Sahu, G., & Verma, P. (2023, December). A Survey Based on Machine Learning Algorithm for Lungs Cancer Prediction. In *2023 International Conference on Artificial Intelligence for Innovations in Healthcare Industries (ICAIIHI)* (Vol. 1, pp. 1-6). IEEE.
* Dewangan, S. K., Pathak, A., Sondhiya, L. K., Singh, U., & Chaubey, A. (2023, December). A Survey based on early predicting diabetes with machine learning algorithms. In *2023 International Conference on Artificial Intelligence for Innovations in Healthcare Industries (ICAIIHI)* (Vol. 1, pp. 1-7). IEEE.
* **Book Chapters / Books Authored**:
* *SKD Gurudatta Verma (2023).*[*FW-MCDM: Feature Weighted Multi-Criteria Decision-Making Techniques for Multi-Label Feature Selections*](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=jvbal-gAAAAJ&sortby=pubdate&authuser=1&citation_for_view=jvbal-gAAAAJ:zYLM7Y9cAGgC)*. Applications of Artificial Intelligence in the Healthcare Sector 1, 14*

7. Research Guidance

|  |  |  |
| --- | --- | --- |
| Level | Awarded | Ongoing |
| Ph.D. |  |  |
| PG |  |  |

8. Awards & Recognitions

* Subject Matter Expert: Fundamentals of Cryptography (SWAYAM – 4 Credit)

Lecture 16: Number Theory Fundamentals

Lecture 17: Theorems in Number Theory

* Received a certificate of appreciation for contribution as a Reviewer during the IEEE 2nd International Conference on Advancements & Key Challenges in Green Energy and Computing (AKGEC 2024), organized by the Department of Electrical & Electronics Engineering, Ajay Kumar Garg Engineering College, Ghaziabad, held from 21st November to 23rd November 2024.
* Received a certificate of appreciation for contribution as a Reviewer during AECE-2024 (International Conference on Advances in Electronics and Communication Engineering), technically co-sponsored by IEEE UP Section, organized by the Department of ECE and CSE, Raj Kumar Goel Institute of Technology (RKGIT), Ghaziabad, held from 22nd November to 23rd November 2024.
* Received a certificate of appreciation for contribution as a Technical Program Committee Member for the International Conference on Advances in Computing and Intelligent Systems (ICACIS 2024), held from 16th May to 17th May 2024.
* Received a certificate of appreciation for contribution as a Reviewer during AECE-2023, technically co-sponsored by IEEE UP Section, organized by the Department of ECE and CSE, RKGIT, Ghaziabad, held from 23rd November to 24th November 2023.
* Received a certificate of appreciation for contribution as a Reviewer during ICCCIS-2023, organized by Shri Shankaracharya Institute of Professional Management and Technology, Raipur, held from 15th December to 16th December 2023.
* Received a certificate of appreciation for contribution as an Expert during the Webinar on “Web Development Using PHP & HTML 5”, organized by the Department of Computer Science & Engineering, Government Polytechnic, Purnea, held from 2nd July to 3rd July 2020.

9. Administrative Roles

* Positions held: HoD, Internal Exam Co-ordinator

10. Professional Memberships

* ISTE

11. Web Presence

* Google Scholar: <https://scholar.google.com/citations?user=jvbal-gAAAAJ&hl=en&authuser=1>
* Github: <https://github.com/Sunil-Dewangan>
* ORCID: <https://orcid.org/my-orcid?orcid=0000-0001-8764-0059>
* LinkedIn: <https://www.linkedin.com/in/sunil-dewangan-4a93ba16a/>

**Video Lectures**

Faculty Name: Sunil Dewangan

Course/Topic: Fundamentals of Cryptography (SWAYAM – 4 Credit)/ 16 संख्या सिद्धांत के मूल सिद्धांत Number Theory Fundamentals

Video Link: <https://www.youtube.com/watch?v=b9kI1zvSwJU>

Faculty Name: Sunil Dewangan

Course/Topic: Fundamentals of Cryptography (SWAYAM – 4 Credit)/ Lecture 17 संख्या सिद्धांत में प्रमेय

Video Link: <https://www.youtube.com/watch?v=tY4lprh_WGc>

Faculty Name: Sunil Dewangan

Course/Topic: Operating System/ Introduction to Memory Management in Operating Systems

Video Link: <https://www.youtube.com/watch?v=h0HIM4DzkzA>

Faculty Name: Sunil Dewangan

Course/Topic: Operating System/ Demystifying Memory Hierarchy: Understanding OS Memory Management

Video Link: <https://www.youtube.com/watch?v=_fTxAQVj_Yk>

Faculty Name: Sunil Dewangan

Course/Topic: Operating System/ Exploring Key Components of Memory Management in Operating Systems

Video Link: <https://www.youtube.com/watch?v=OWxtFiWLt7w>

Faculty Name: Sunil Dewangan

Course/Topic: Operating System/ Exploring Fixed and Variable Partitioning in Memory Management

Video Link: <https://www.youtube.com/watch?v=rDJ6BnHWYHo>

Faculty Name: Sunil Dewangan

Course/Topic: Operating System/ Contiguous Memory Allocation: First Fit, Next fit, Worst Fit, and Best Fit

Video Link: <https://www.youtube.com/watch?v=f8UNyTcyr98>

Faculty Name: Sunil Dewangan

Course/Topic: Operating System/ Non-Contiguous Memory Allocation: Paging

Video Link: <https://www.youtube.com/watch?v=E8jSvyL0b3Y&t=607s>

Faculty Name: Sunil Dewangan

Course/Topic: Operating System/ Disk Drive

Video Link: <https://www.youtube.com/watch?v=llIevp8ugTo>

Faculty Name: Sunil Dewangan

Course/Topic: Operating System/ Shortest Seek Time First Disk Scheduling

Video Link: <https://www.youtube.com/watch?v=lgiQ8duE-Jk&t=1s>

**Profile:** Mr. Sunil Kumar Dewangan is currently working as Assistant Professor at Shri Shankaracharya Institute of Professional Management & Technology, Raipur. He is pursuing his Ph.D. in Computer Science & Engineering from Kalinga University, Naya Raipur. He received his M.Tech in Computer Science & Engineering from C.S.V.T.U, Bhilai in 2014, and his B.E. in Computer Science & Engineering from Pt. R.S.S. University, Raipur in 2008.

He has over 16 plus years of experience in teaching, mentoring, and research at UG and PG levels. His research domains include Machine Learning, Web Technologies, Software Engineering, and Data Mining. His field of interests encompasses feature selection algorithms, text classification algorithms, optimization techniques, and web application development. He has guided numerous students in completing their research projects and thesis work under his supervision.

He has published more than 15 research papers in various journals and conferences, and has also contributed to national and international academic venues. He has filed more than 3 patents both National and International under his name, including innovations in IoT systems, educational technology, and healthcare robotics. Dr. Dewangan has actively participated in various National and International Seminars and Workshops as both participant and reviewer. He has also mentored many students with their thesis and projects, and has contributed as a Subject Matter Expert for SWAYAM MOOC video lectures on "Fundamentals of Cryptography." His technical expertise spans across programming languages like C/C++, JavaScript, React JS, HTML, Python, and he has experience with databases like MySQL and platforms including Android, Ubuntu, and Windows.