

Profile of Dr. Sumit Babu

1. Name- Dr. Sumit Babu

- **Designation-** Lecturer
- **Department-** Computer Science & Engg.
- **Qualification-** PhD, M.Tech, B.Tech

2. Contact Information:

- **Email-** sumitbabucse@gmail.com
- **Phone No.-** 7250043027



3. Research Interest:

Software Engineering, Software Quality, Artificial Intelligence, Machine Learning, Cloud Computing

4. Teaching Areas:

Software Engineering, Data Science & Machine Learning, Cloud Computing, Programming using Python, OOPS using Java, Programming using C & C++, Computer Networks, Internet of Things, Programming using PHP. Database Management System

5. Publications:

1. Babu, S., & Singh, R. (2024). Artificial Neural Network based Model for Reliability Assessment of Component based Software: ANN MODEL FOR RELIABILITY ASSESSMENT OF COMPONENT BASED SOFTWARE. *Journal of Scientific & Industrial Research (JSIR)*, 83(6), 617-626.
2. Babu, S., & Singh, R. (2024). Enhancing software reliability prediction using fuzzy AHP-based mathematical model and ANN integration. *International Journal of Information Technology*, 1-14.
3. Babu, S., & Singh, R. (2022). Neural network-based model for the quality assessment of object-oriented software. *International Journal of Open Source Software and Processes (IJOSSP)*, 13(1), 1-13.
4. Babu, S., & Singh, R. (2022, September). A model for prediction of understandability and modifiability of object-oriented software. In *Congress on Intelligent Systems* (pp. 275-286). Singapore: Springer Nature Singapore.

5. Babu, S., & Singh, R. (2022, July). Impact of Inheritance and Reusability on Design Quality of Object Oriented System. In *2022 22nd International Conference on Computational Science and Its Applications (ICCSA)* (pp. 35-40). IEEE.

6. Workshops/Conferences:

1. Completed one week training on topic “Teacher as a Motivator” conducted by I.R.D.T. Kanpur from 14.03.2016 to 18.03.2016.
2. Completed one week training on topic “Soft skills and personality development” conducted by I.R.D.T. Kanpur from 12.11.2018 to 16.11.2018.
3. Completed one week training on topic “NSQF Syllabus for CDTP beneficiaries” conducted by NITTTR Chandigarh from 25.02.2019 to 01.03.2019.
4. Completed one week training on topic “Developing entrepreneurial competencies among students” conducted by I.R.D.T. Kanpur from 05.08.2019 to 09.08.2019.
5. Completed one week training on topic “Internet of things” conducted by I.R.D.T. Kanpur from 05.11.2019 to 09.11.2019.
6. Completed one week training on topic “Python training with Django framework” conducted by I.R.D.T. Kanpur from 20.01.2020 to 24.01.2020.
7. Completed Three week training on topic “Industrial Training Programme on Energy Harvesting, Materials Characterization Techniques and Applications” conducted by NITTTR Chandigarh from 13.07.2020 to 31.07.2020.
8. Completed one week training on topic “Cyber security and networking” conducted by ALTTC Ghaziabad from 18.01.2021 to 22.01.2021.
9. Completed one week training on topic “Open source cyber security tools” conducted by NITTTR Chandigarh from 22.08.2022 to 26.08.2022.
10. Completed training on “PHP and My SQL” conducted by Spoken tutorial project, IIT Bombay and IRDT Kanpur on 11.04.2023.
11. Completed two days workshop on “Purchase, Procedures and store management” conducted by and IRDT Kanpur from 25.07.2024 to 26.07.2024.
12. Completed 08 module courses conducted by NITTT in February 2023.
13. Completed 08 Week MOOCS on “Introduction to Research” in AUG- SEP 2018.
14. Completed 08 Week MOOCS on “Introduction to Machine Learning” in AUG- OCT 2018.
15. Completed 08 Week MOOCS on “Introduction to Soft Computing” in JAN- MARCH 2019.

16. Completed 08 Week MOOCS on “Data Science for Engineers” in JAN-MARCH 2019.
17. Completed 08 Week MOOCS on “Object Oriented Analysis and Design” in AUG- OCT 2019.
18. Completed 12 Week MOOCS on “Software Testing” in JUL- OCT 2019.
19. Completed 12 Week MOOCS on “Computer Network and Internet Protocol” in JAN-APR 2022.
20. Completed 12 Week MOOCS on “Internet of Things” in JUL-OCT 2022.
21. Completed 08 Week MOOCS on “Big Data Computing” in AUG-OCT 2023.(Gold Medal)

7. Awards and Honours:

- Got Best Teacher award by Honorable Chief Minister of Uttar Pradesh in Feb 2019.

8. Extracurricular Involvements:

1. Worked as Gem Portal Officer.
2. Worked as Store/Maintenance Officer.
3. Worked as JEECUP Officer.
4. Worked Hostel Warden.
5. Worked as AICTE portal Officer.
6. Worked as Computer Application Department In-charge.
7. Worked as Assistant Center Superintendent in semester exams.
8. Worked as Center observer in JEECUP exams.
9. Worked as Zonal Officer in JEECUP exams.
10. Worked as Technical expert in various committees at IRDT and Directorate Level.
11. Worked as Technical subject expert for syllabus development of Computer science, Information technology, PG diploma in computer application, web designing, computer hardware and networking and PG diploma in Internet of things courses at IRDT Kanpur.
12. Worked as Reviewer in International Journals and Conferences.

9. Online Courses/Video Links:

- <https://youtu.be/JdbS9Ngrvuk?si=YIKu3GAJdYdReC3a>
- https://youtu.be/EbjoKDauuHo?si=H_amqzL5V0zNVdNn
- <https://youtu.be/e-k59Uod8ro?si=5CsWEaN2gwjxwoPM>
- https://youtu.be/irEnzkzgo_0?si=JmCLSzTmTOEizodZ

10. Social Media Platforms:

- <https://www.youtube.com/@sumitbabu8401>
- <https://www.researchgate.net/profile/Sumit-Babu>
- <https://orcid.org/0000-0002-1278-2367>

11. Additional Information:

Sumit Babu completed his Bachelor of Technology in Computer Science and Engineering from Gautam Buddha Technical University in 2011. He completed his Master of Technology in Information Technology from Birla Institute of Technology, Mesra, Ranchi in 2015. He completed his PhD in Computer Science and Engineering from Harcourt Butler Technical University, Kanpur, India in 2024. Currently, he is working as a lecturer in Computer Science Department of Government Polytechnic Kanpur since 2015. He has 9 years of experience in teaching. He has published various research papers in international journals and conferences.