

XITIJ U. SHUKLA, PhD, CISA

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Summary

Having total 10+ years of experience involving Leadership, Academic Teaching, IS Security and Audit, Machine Learning, Software Development, Establishment and Maintenance of IT infrastructure and Decision making.

Education

Academic

| Qualification | Institute/University | Year |
|-----------------------------------|---|------|
| PhD in Computer Science | Kachchh University, India | 2016 |
| Master of Computer Applications | Indira Gandhi National Open University, India | 2007 |
| Bachelor of Computer Applications | Indira Gandhi National Open University, India | 2004 |
| Diploma in Mechanical Engineering | Government Polytechnic, Bhuj, India | 2003 |

Certifications

| Certifications | Institute/Organization | Year |
|--|-------------------------------------|------|
| Certified Information Systems Auditor (CISA) | ISACA, USA | 2016 |
| State Eligibility Test for University Teaching | University Grants Commission, India | 2009 |

Trainings

| Trainings | Institute/Organization | Year |
|---|---|------|
| Faculty Development Program (Refresher) | Human Resources Dev. Centre, SP University, India | 2018 |
| Faculty Development Program (Orientation) | Human Resources Dev. Centre, SP University, India | 2016 |
| MDP on Information Systems Management | Institute of Rural Management Anand, India | 2005 |

Consultancies/Research Projects

- Independently consulted a mid-sized brokerage firm for vulnerability assessment
- Developed a tool for Experimental Designs in Python, Qt, Flask and R
- Developed a tool extract words used by MK Gandhi <http://projectgandhi.org>
- Implementation of a platform independent, distributed, IoT environment under PhD research

Technical Skills

- **Programming Languages** Python, R, Java, Arduino, bash shell, XML, C, C++
- **Audit, Digital Forensics and Penetration** Kali Linux Tools, Linux and Windows Auditing
- **Scientific, Machine Learning** NumPy, SciPy, Pandas, NLTK, scikit-learn
- **Web and GUI Application Development** Flask, Qt
- **HPC Software** MPI, Rocks, Apache Hadoop
- **Document Processing** L^AT_EX, Microsoft Office

Professional Membership

- ACM, ISACA

Experience

- Anand Agricultural University** (<http://www.aau.in>) April 2012 - Present
Assistant Professor (Permanent - Full time)
- Kachchh University** (<http://www.kutchuni.edu.in>) June 2009 - April 2012
Lecturer and Officiating Head of the Department of Computer Science (ad-hoc)
- Veerayatan Institute** (<http://www.veerbabca.org/>) June 2008 - June 2009
Lecturer
(College affiliated to the Kachchh University)
- SRK Institute** December 2006 May 2008
System Engineer
(College affiliated to the Kachchh University)
- TM Systems (P) Ltd.** (<http://www.tmspl.com>) May 2006 December 2006
Software Support Engineer
- Kutch Mahila Vikas Sangathan** (<http://www.kmvs.org.in>) August 2004 May 2006
Network and System Administrator
(A not for profit organization working for women empowerment)

Volunteering Activity

- Judging the nominations for ISACA Awards
- Contribution to the English Wikipedia focusing on Human Rights
- Blood Donation

References

Available on request

Publications

Articles

- [1] Dinesh Parmar, Arvind Kalola, G. Motka, **Xitij Shukla**, and Piyush Vaishnav. Comparison of selection indices using different weights for biometrical characters in forage sorghum (*Sorghum bicolor* (L.) Moench). *Ayudh*, 4(Special Edition, 2018):63–70, 2018.
- [2] **Xitij Shukla** and Dinesh Parmar. Python: A Comprehensive yet Free Programming Language for Statisticians. *Journal of Statistics and Management Systems, ABDC Rating: C*, 19(2), Feb 2016. doi: <http://dx.doi.org/10.1080/09720510.2015.1103446>.
- [3] Devji Chhanga and **Xitij Shukla**. FOSSICK: An Implementation of Federated Search Engine. *International Journal Of Computer Science Engineering And Information Technology Research*, 6(1):69–78, Feb 2016.
- [4] **Xitij Shukla**. Applications of grid computing in agriculture. *Gujarat Journal of Extension Education*, 25(1):58–60, Jan 2015.
- [5] **Xitij Shukla**. TIFRAC : A 55 Year Old Indian Computing Initiative. *DNA Bit*, 1(1), May 2012.
- [6] Rajiv Joshi and **Xitij Shukla**. Free and Open Source CRM Software for Small and Medium Enterprises. *Marketing Mastermind*, 8(12):20–22, Dec 2008.

Book Chapters

- [1] Parmar D. and **Shukla X.** SAS and R : An Overview. In *Water and Energy Security in the Arena of Climate Change*, volume 1, pages 339–362. Department of Soil and Water Engineering, College of Agricultural Engineering and Technology, Anand Agricultural University, Godhra, Feb 2017.

Books / Compiled Volumes

- [1] **Xitij Shukla** and Dinesh Parmar. *Laboratory Manual for Undergraduate Course on Agriculture Informatics*. Department of Agricultural Statistics, B.A. College of Agriculture, Anand Agricultural University, Anand, Mar 2017.
- [2] Dinesh Parmar and **Xitij Shukla**. *Exercise Manual for Undergraduate Course on Agricultural Statistics*. Department of Agricultural Statistics, B.A. College of Agriculture, Anand Agricultural University, Anand, Mar 2017.
- [3] P Vaishnav, G Motaka, D Parmar, A Khokhar, A Kalola, **X Shukla**, and U Upadhyay, editors. *A Research Compendium on Statistical Evaluation of Experimental Variability for Improving Efficiency of Field Experimentation*. Department of Agricultural Statistics, B.A. College of Agriculture, Anand Agricultural University, Anand, Feb 2017.

Conference Papers / Talks

- [1] **Xitij Shukla** and Dinesh Parmar. A python approach to factorial designs of experiments. In *10th SciPy India 2018, International conference on Python for Education and Scientific Computing, Indian Institute of Technology, Bombay*, Dec 2018.
- [2] **Xitij Shukla**, Kalpesh Patel, Dinesh Parmar, and G. Motaka. Genotype identification in cluster bean (*Cyamopsis tetragonoloba* (L.)) using hierarchical and k-means clustering using open source software. In *72nd Conference of Indian Society of Agricultural Statistics, ICAR-CIAE, Bhopal*, Dec 2018.
- [3] **Xitij Shukla**. Applications of grid computing in agriculture. In *5th National Seminar on Extension Education*, Jan 2014.
- [4] **Xitij Shukla**. Social networks : a second home (interdisciplinary panel discussion). International Conference of Constructs of Home, organized by WW University of Muenster, Germany and the University of Kachchh, Bhuj, Nov 2009.
- [5] **Xitij Shukla**. Scope, applications and frontiers of computing in the new millennium. In *INSPIRE-2011 organized by Kachchh University and Department of Science and Technology*, Jan 2011.
- [6] **Xitij Shukla**. Cloud computing for remotely situated research oriented organizations. In *2nd International Conference on Management (ICOM 2009)*, Jan 2009.