

# XITIJ U. SHUKLA, PhD, CISA

Department of Agricultural Statistics, B A College of Agriculture, Anand Agricultural University  
Anand 388 110, Gujarat, India, Cell: +91 982-585-7447 E-mail: xitijshukla@hotmail.com

## 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<sup>A</sup>T<sub>E</sub>X, 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.veerbbabca.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 *10<sup>th</sup> 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 *72<sup>nd</sup> Conference of Indian Society of Agricultural Statistics, ICAR-CIAE, Bhopal*, Dec 2018.
- [3] **Xitij Shukla**. Applications of grid computing in agriculture. In *5<sup>th</sup> 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 *2<sup>nd</sup> International Conference on Management (ICOM 2009)*, Jan 2009.