



Kedar Khandeparkar

Curriculum Vitae

Education

- 2012–2018 **PhD**, *Indian Institute of Technology Bombay*, Mumbai, *CPI: 8.05*.
- 2009–2011 **M.Tech**, *Computer Science and Engineering stream*, *College of Engineering Pune*, Pune University, *CPI: 8.81*.
- 2003–2007 **Bachelors in Engineering**, *Computer Science and Engineering stream*, *Goa Engineering College*, *Goa University*, *First Class: 67%*.

Area of Interest

Machine Learning, Data Structures and Algorithms, Design and Analysis of Algorithms, Data Science in Smart Grids

PhD thesis

- title *Meeting Data Accuracy and Quality of Service Requirements for Analytics in Transmission Grids*
- supervisors Prof. Krithi Ramamritham, IIT Bombay and Prof. S. A. Soman, IIT Bombay

Master thesis

- title *Design and Implementation of a Phasor Data Concentrator for Wide Area Measurement System*
- supervisors Prof. A. M. Kulkarni, IIT Bombay and Prof. V. Z. Attar, College of Engg., Pune

Experience

Vocational

- 2010-2011 **Intern**, *IIT Bombay*, Dept. of Electrical Engg., Bombay.
Worked towards storage, retrieval and processing of continuous streaming data in a Wide Area Frequency Measurement system. The projects are hosted at <http://www.ee.iitb.ac.in/~anil/> and <https://ipdc.codeplex.com/>.
- Aug. 2011 **Research Fellow**, *IIT Bombay*, Dept. of Electrical Engg., Bombay.
Worked in the area of short term load forecasting by developing various regression models.

Regular

2007–2009 **Programmer Analyst**, *Cognizant Technology Solutions Pvt. Ltd.*, MIDC, Pune.

Achievements:

- Worked in Banking and Financial Services domain.
- Designed schemas and procedures in Sybase and Oracle databases.

Present **Research Associate**, *IIT Bombay*.

Technical Skills

- C, Python, R, MATLAB.

Awards

- 2017 Delivered talk at Research Scholar's Conclave, College of Engg., Pune 2017.
- 2017 Completed Yoga Instructors Course (YIC) from Swami Vivekananda Yoga Anusandhana Sansthana (S-VYASA)
- 2012 Recipient of the Goa Scholars Award: a merit-based scholarship of INR 600K awarded by the government of Goa for post graduate studies
- 2000 Secured 31st rank in S.S.C. Goa Board

Other Interests

- Participated in blood donation camps
- Conducted Yoga camps at IITB and volunteered for 21st June International Yoga Day
- Involved in the stem cell blood donation drive held at IIT Bombay
- Reading

References

- Prof. Krithi Ramamritham (CSE, IITB).
- Prof. S. A. Soman (EE, IITB).
- Prof. Anil Kulkarni (EE, IITB).
- Prof. Purushottan Kulkarni (CSE, IITB).

Publications

- [1] Kedar Khandeparkar, Krithi Ramamritham, and Rajeev Gupta. Qos-driven data processing algorithms for smart electric grids. *ACM Trans. Cyber-Phys. Syst.*, 1(3):14:1–14:24, March 2017.
- [2] K. V. Khandeparkar, S. A. Soman, and G. Gajjar. Detection and correction of systematic errors in instrument transformers along with line parameter estimation using pmu data. *IEEE Transactions on Power Systems*, PP(99):1–1, 2016.
- [3] Kedar Khandeparkar, Krithi Ramamritham, Rajeev Gupta, Anil Kulkarni, Gopal Gajjar, and Shreevardhan Soman. Timely query processing in smart electric grids: Algorithms and performance. In *Proceedings of the 2015 ACM Sixth International*

Conference on Future Energy Systems, e-Energy 2015, Bangalore, India, July 14-17, 2015, pages 161–170, 2015.

- [4] Kedar Khandeparkar, Pratik Patre, Swadesh Jain, Krithi Ramamritham, and Rajeev Gupta. Efficient PMU data dissemination in smart grid. In *The Fifth International Conference on Future Energy Systems, e-Energy '14, Cambridge, United Kingdom - June 11 - 13, 2014*, pages 227–228, 2014.
- [5] Kedar V Khandeparkar, Nitesh Pandit, A. M. Kulkarni, V. Z. Attar, and S. U. Ghumbre. Design of a phasor data concentrator for wide area measurement system. In *National Power System Conference*. NPSC, 2012. <http://www.iitk.ac.in/npsc/Papers/NPSC2012/papers/12223.pdf>.