



Kaniska Samanta

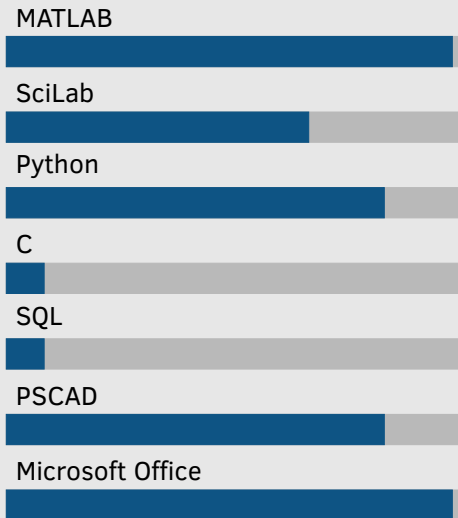
Engineer

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About me

I am an Instrumentation Engineer with a focus to be a researcher, majoring in Computational Neuroscience and Brain Computer Interface. Beside academics, I have passion for trekking and travelling.

Skills



(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Research Interests

Computational Neuroscience (Biomedical Signal and Image Processing), Brain Computer Interface, Machine Learning, Deep Learning, Digital Signal Processing.

Education

- since 2019 M. Tech. in Electrical Engineering
Majoring in Electrical Instrumentation.
Techno India University, Kolkata
- 2013-2017 B.Tech. in Instrumentation and Control Engineering CGPA: 7.87/10
Calcutta Institute of Engineering and Management, Kolkata
- 2013 High school Marks Obtained: 53.2%
Passed Higher Secondary Examination with Specialization in Science from Haldia Govt.Sponsored X Class Secondary School.
- 2010 School Marks Obtained: 71.6%
Passed Secondary Examination from Vivekananda Mission Asram Sikshayatan.

Publications

Conference Proceedings

- 2016 R. Bose, *K. Samanta*, K. Ghosh, R. Bandyopadhyay and S. Chatterjee, "Transient Analysis of Mechanically Switched Capacitors with and without Damping Network Connected to A.C Grid", Proceedings of IEEE International Conference on Control, Instrumentation, Energy and Communication(CIEC), Kolkata, West Bengal, India, 2016(Published). DOI: 10.1109/CIEC.2016.7513789
- 2016 R. Bose, *K. Samanta* and S. Chatterjee, "Cross-Correlation Based Feature Extraction from EMG Signals for Classification of Neuro-muscular Diseases", Proceedings of IEEE International Conference on Intelligent Control Power and Instrumentation (ICICPI), Kolkata, West Bengal, India, 2016(Published). DOI: 10.1109/ICICPI.2016.7859710
- 2019 A. Nandi, S. Biswas, *K. Samanta*, S. Singha Roy and S. Chatterjee, "Diagnosis of Induction Motor Faults Using Frequency Occurrence Image Plots - A Deep Learning Approach", Proceedings of IEEE International Conference on Electrical, Electronics and Computer Engineering (UPCON), Aligarh, Uttar Pradesh, India, 2019(Published). DOI: 10.1109/UPCON47278.2019.8980279
- 2019 S. Dey, S. Singha Roy, *K. Samanta*, S. Modak and S. Chatterjee, "Autocorrelation Based Feature Extraction for Bearing Fault Detection in Induction Motors", Proceedings of IEEE International Conference on Electrical, Electronics and Computer Engineering (UPCON), Aligarh, Uttar Pradesh, India, 2019(Published). DOI: 10.1109/UPCON47278.2019.8980025

Journal Articles and Book Chapters

- 2019 R. Bose, *K. Samanta*, S. Chatterjee, S. Bhattacharyya and A. Khasnobish, "Motor Imagery Classification Enhancement with Concurrent Implementation of Spatial Filtration and Modified Stockwell Transform", Book Chapter in Bioelectronics and Medical Devices, Elsevier, 2019(Published). DOI: <https://doi.org/10.1016/B978-0-08-102420-1.00038-8>
- 2019 S. Chatterjee, *K. Samanta*, N. Ray Choudhury and R.Bose, "Detection of Myopathy and ALS Electromyograms Employing Modified Window Stockwell Transform", IEEE Sensors Letters, Volume: 3, Issue: 7, 2019(Published). DOI: 10.1109/LSENS.2019.2921072
- 2020 *K. Samanta*, S. Chatterjee and R.Bose, "Cross-Subject Motor Imagery Tasks EEG Signal Classification Employing Multiplex Weighted Visibility Graph and Deep Feature Extraction", IEEE Sensors Letters, Volume: 4, Issue: 1, 2020(Published). DOI: 10.1109/LSENS.2019.2960279

Awards

2016 Best Paper Award at CIEC 2016 IEEE international conference.

Industrial Internship

2017 Indian Oil Corporation Limited, Haldia Refinery.

Other information

Language

English - Working Proficiency.

Hindi - Full Working Proficiency (Native Language).

Bengali - Full Proficiency (Mother Tongue).

Hobbies

Traveling: I am a passionate traveller. I like to visit new and old places and to make new friends to know and understand their culture and lifestyle.

Trekking: I am an amateur level trekker with experience of few high altitude trekking. I am an active member of local trekking expedition club and life member of Youth Hostel Association of India.