

Nilavra Bhattacharya

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EDUCATION

- 2017-present **Doctor of Philosophy**
School of Information, University of Texas at Austin, USA
Cumulative GPA: 4.0 / 4.0. Advisor: Dr. Jacek Gwizdka
- 2011-2015 **Bachelor of Engineering (Computer Science & Technology)**
Indian Institute of Engineering Science and Technology (IIT) Shibpur, India
Formerly: Bengal Engineering College (B.E. College), Shibpur, India
Cumulative GPA 8.85 / 10.00 (First Class with Honours)

EMPLOYMENT

- 05.2018-08.2018 **QuoData GmbH, Berlin, Germany**
DAAD RISE Professional Internship
- Applied neural networks to classify biological samples from mass-spectrometry data
 - Python, Keras, TensorFlow**
(Poster: <https://nilavra.in/download/quodata2018>)
- 07.2015-07.2017 **Calcutta Electric Supply Corporation (CESC) Limited, Kolkata, India**
Software Engineer – Executive (IT)
- Designed, developed, and administered enterprise web-applications.
 - Java, Oracle 11g, PL/SQL, HTML, CSS, jQuery, Bootstrap**
(Example project: <https://nilavra.in/projects/empkiosk>)
- 2017 **Snaxchange Limited, London, UK**
Software Developer (Freelance, Remote)
- Designed and developed an online community marketplace to help reduce food wastage
 - WordPress, WooCommerce, PHP, MySQL**
(Details: <https://nilavra.in/projects/snaxchange>)
- 2015 **Abin Design Studio, Kolkata, India**
Web Developer (Freelance)
- Designed and developed a responsive portfolio website for a leading architect, featuring an intuitive image-based drag-and-drop content management system built from scratch
 - ASP.NET C# (Web Pages), Microsoft SQL Server**
(Details: <https://nilavra.in/projects/abin-design-studio>)
- 05.2014-07.2014 **Calcutta Electric Supply Corporation (CESC) Limited, Kolkata, India**
Summer Internship
- Designed and developed *Bill Delivery Monitoring System*, a web-application to monitor timely delivery of electricity bills, which processes data for 1.1 million consumers daily
 - Won the **Best Internship Project Award** amongst 14 competitors
(Details: <https://nilavra.in/projects/cms>)
- 06.2013-07.2013 **Oil and Natural Gas Corporation (ONGC) Ltd., Kolkata, India**
Summer Internship
- Designed and developed *Oil Well Data Management System*

List of software development projects: <https://nilavra.in/projects>

AWARDS, HONOURS & FELLOWSHIPS

- 2018 **DAAD RISE Professional Scholarship**, *German Academic Exchange Service (DAAD)*
- 2017 **Best Paper Runner-Up Award**
Publication [C2]: 52nd Annual Convention of Computer Society of India (CSI)
- 2017 **Graduate Recruitment Fellowship**, *University of Texas at Austin, USA*
- 2017 **Runner up, Smart India Hackathon**, *Govt. of India*
Led (mentored) a team of six students in a national hackathon (<https://nilavra.in/download/sih2017>)
- 2016 **Best Design, WebD Web Development Contest**, *IEST Shibpur, India*
Among 25 participants nationwide, for designing a college cafeteria website (top 4%)
- 2015 **AICTE-INAE Travel Grant Scheme**, *Govt. of India*
For presenting paper at the 10th VISAPP conference in Berlin, Germany
- 2015 **Winner, WebD Web Development Contest**, *IEST Shibpur, India*
Among 20 participants nationwide, for designing a university library website (top 5%)
- 2014 **Best Internship Project Award**, *CESC Limited, Kolkata, India*
Among 15 interns, for designing Bill Delivery Monitoring System (top 6%)

PUBLICATIONS

First author: 3, Awards: 1.

- [C4] **Bhattacharya N.**, & Gwizdka J. (2019). Measuring Learning During Search: Differences in Interactions, Eye-Gaze, and Semantic Similarity to Expert Knowledge. In *Proceedings of the 2019 ACM Conference on Human Information Interaction and Retrieval (CHIIR '19)*. Glasgow, UK: ACM.
- [C3] **Bhattacharya N.**, & Gwizdka J. (2018). Relating Eye-Tracking Measures With Changes In Knowledge on Search Tasks. In *Proceedings of the 2018 ACM Symposium on Eye Tracking Research and Applications (ETRA '18)* (pp. 62:1-62:5). Warsaw, Poland: ACM. DOI: [10.1145/3204493.3204579](https://doi.org/10.1145/3204493.3204579)
- [C2] Roy S., **Bhattacharya N.**, Chanda B., Chaudhuri B., & Banerjee S. (2017). Image Denoising Using Fractal Hierarchical Classification. In *Proceedings of the 52nd Annual Convention of Computer Society of India (CSI 2017)*. (pp. 631-645). Kolkata, India: Springer. DOI: [10.1007/978-981-13-1343-1_52](https://doi.org/10.1007/978-981-13-1343-1_52).
Best Paper Runner-Up Award.
- [C1] **Bhattacharya N.**, Roy S., Nandi U., & Banerjee S. (2015). Fractal Image Compression using Hierarchical Classification of Sub-images. In *Proceedings of the 10th International Conference on Computer Vision Theory and Applications (VISIGRAPP 2015)*. (pp. 46-53). DOI: [10.5220/0005265900460053](https://doi.org/10.5220/0005265900460053)

SERVICE

Conference Peer Review

- CHIIR 2019 ACM SIGIR Conference on Human Information Interaction and Retrieval
ETRA 2018 ACM Symposium on Eye Tracking Research & Applications

School and University Committees

- 2018-19 UT Austin iSchool Faculty Search Committee: Assistant Professor
2017-18 UT Austin iSchool Doctoral Students Association
2017-18 UT Austin iSchool Web Committee

PROFESSIONAL AFFILIATIONS

- IEEE Institute of Electrical and Electronics Engineers, since 2016
ACM Association for Computing Machinery, since 2018

LANGUAGES

Fluent English and Bengali, Knowledge of Hindi

OTHER ACTIVITIES

Video and film editing (<http://nilavra.in/archive>); Music direction