

Pinaki Nath Chowdhury

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Education

- 2020 – Present **SketchX Lab of Center for Vision, Speech and Signal Processing**
University of Surrey, United Kingdom.
Doctor of Philosophy (Ph.D)
Supervisors: Dr. Yi-Zhe Song and Prof. Tao Xiang
- 2014 – 2018 **Kalyani Government Engineering College, Kalyani (India)**
University: Maulana Abul Kalam Azad University of Technology
Formerly known as West Bengal University of Technology
Computer Science and Engineering
DGP: 8.33/10 (Including all 8 semesters)
Graduated with Bachelor of Technology (Honors)
B.Tech Thesis: *Analysis and Comparison of Natural Shapes.*

Employment History

- June 2018 – September 2020 **Project Linked Person.** CVPR Unit, Indian Statistical Institute Kolkata.
Working on problems related to computer vision and machine learning.
Guide: Prof. Umapada Pal (Head and Professor, CVPR Unit ISI Kolkata).
- May 2018 – June 2018 **Full Stack Developer** Egnify Technologies, Hyderabad. Use MERN stack and GraphQL for building and integrating several microservices.
- February 2018 – April 2018 **Full Stack Developer intern.** MyAnatomy Integrations LLP, Bangalore.
Use MERN stack to create microservices. Built the payment gateway service.
- August 2017 – February 2018 **Research Intern.** CSIR - Central Drug Research Institute, Lucknow.
Analysing awareness of various disease using web scrapping and machine learning for text classification. Guide: Dr. Sukant Khuranna.
- October 2016 – March 2017 **Python Developer intern.** EduGorilla Community Pvt. Ltd. Web Scraping and integrating several APIs for validation of data.

Selected Publications

- 1 **Pinaki Nath, C.,** Palaiahnakote, S., Hamid A., J., Rabha W., I., Umapada, P. & Tong, L. (2020). A new fractal series expansion based enhancement model for license plate recognition. *Signal Processing: Image Communication.*
- 2 **Pinaki Nath, C.,** Palaiahnakote, S., Swati, K., Ramachandra, R., Umapada, P., Tong, L. & Daniel, L. (2020). Graph attention network for detecting license plates in crowded street scenes. *Pattern Recognition Letters.*
- 3 **Pinaki Nath, C.,** Palaiahnakote, S., Umapada, P., Tong, L. & Michael, B. (2020). A new augmentation-based method for text detection in night and day license plate images. *Multimedia Tools and Applications.*

- 4 Shuvojit, G., **Pinaki Nath, C.**, Partha Pratim, R. & Umapada, P. (2020). Modeling extent-of-texture information for ground terrain recognition. In *25th international conference on pattern recognition (ICPR 2020)*.
- 5 Hongjian, Z., **Pinaki Nath, C.**, Umapada, P. & Yue, L. (2019). Handwritten numeral string recognition for indian scripts. In *5th asian conference on pattern recognition (ACPR 2019)*.
- 6 Nibal, N., Yash, P., Michal, B., **Pinaki Nath, C.**, Dimosthenis, K., Wafa, K., ... Jean-Marc, O. (2019). Icdar2019 robust reading challenge on multi-lingual scene text detection and recognition – rrc-mlt-2019. In *15th international conference on document analysis and recognition (ICDAR, 2019)*.
- 7 **Pinaki Nath, C.**, Palaiahnakote, S., Raghavendra, R., Umapada, P., Tong, L. & Michael, B. (2019). A new u-net based enhancement model for license plate detection in night and day images. In *5th asian conference on pattern recognition (ACPR 2019)*.

Skills

Languages	■ Strong reading, writing and speaking competencies for English, Bengali, Hindi.
Coding	■ Python, C++, C
Databases	■ MongoDB, MySQL, PostgreSQL, SQLite, Google Datastore.
Web Dev	■ HTML, CSS, JavaScript, Google Cloud Platform, Heroku.
Misc.	■ GIT, Tensorflow, Pytorch, Scrappy, MERN Stack, GraphQL, Academic research.

Miscellaneous Experience

Awards and Achievements

- 2020 ■ iFlyTek Ph.D. Scholarship
- 2014 ■ **West Bengal Joint Entrance Examination Rank: 960** out of more than 0.1 million candidates.
For admission to premier engineering colleges in West Bengal.
Got admits from Jadavpur University, IIST Shibpur, Kalyani Government Engineering College.
Opening rank in Kalyani Government Engineering College, batch: 2014-2018

Competitive Coding

- 2018 ■ **Google CodeJam 2018 Qualifying Round** Global Rank: 6767. Solved 2.5 problems out of 4.
- 2017 ■ **CodeChef Snackdown Pre-Elimination Round** Global Rank 729
- 2016 ■ **CodeChef Snackdown Qualified to Pre-Elimination Round**

References

Available on Request