



Jimut Bahan Pal

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<https://jimut123.github.io/>

"Researching innovative Deep Learning solutions."

Education

2019 – 2021 **M.Sc. in Computer Science**, Ramakrishna Mission Vivekananda Educational and Research Institute, Belur, Howrah.

o Thesis – **Instance Segmentation of Peripheral Blood Smear and Refining Classification via Domain Adaptation.**

2016 – 2019 **B.Sc. (Hons.) Computer Science** St. Xavier's College, Park Street, Kolkata.

o Dissertation – **Wisp: A Preference Based Location Finder Application.**

Awards & Accolades

Feb. 2022 **Qualified in UGC-NET 2021**, for Assistant Professor.

March. 2022 **Qualified in GATE 2022.**

Publications

Conference Proceedings

Oct. 2021 Pal, J. B., & Paul, N. (2021). Classifying Chest X-Ray COVID-19 images via Transfer Learning. In 2021 Ethics and Explainability for Responsible Data Science (EE-RDS) (p. 1-8). doi: 10.1109/EE-RDS53766.2021.9708580

July 2021 Pal, J. B. (Accepted). Holistic network for quantifying uncertainties in medical images. In Brain Lesion 2021 MICCAI Workshop, Springer LNCS (Vol. 2).

Journal

Feb. 2021 - Pal, J. B., Bhattacharyea, A., Banerjee, D., & Maharaj, T. (Under Review). Instance segmentation of peripheral blood smear and refining classification via domain adaptation. Springer Nature Computer Science Journal.

Oct. 2020 - Pal, J. B., & Mj, D. (Under Review). Improving multi scale attention networks: Bayesian optimization for segmenting medical images. Computer Methods and Programs in Biomedicine Update (Elsevier)

- 2019 Pal, J. B., & Agarwal, S. (2019, 2). Real time object detection can be embedded on low powered devices. International Journal of Computer Sciences and Engineering, 7 , 1005-1009. Retrieved from https://www.ijcseonline.org/pdf_paper_view.php?paper_id=3783&173-IJCSE-05793.pdf doi: <https://doi.org/10.26438/ijcse/v7i2.10051009>
- 2018 Pal, J. B., & Nath, A. (2018, 12). New approach to generate, re-generate, encode, and compress 3d structures using polynomial equations. International Journal of Computer Sciences and Engineering, 6 , 984-992. Retrieved from https://www.ijcseonline.org/pdf_paper_view.php?paper_id=3453&169-IJCSE-05473.pdf doi: <https://doi.org/10.26438/ijcse/v6i12.984992>
- Oct. 2018 Pal, J. B., & Nath, A. (2018, 10). Botnets: A constant threat to cyberspace.

Preprints

- 2020 Pal, J. B. (2020). How to cluster nearest unique nodes from different classes using jjcluster in wisp application? CoRR, abs/2002.05886 . Retrieved from <https://arxiv.org/abs/2002.05886>

Experience

- March – **Computer Application teacher, RKMVERI, Belur, Howrah.**
 April, 2020 Taught the class of PGDY (2020-21) comprising 12 students about computer applications. Guided students to research on independent projects and develop communication skills.
- Jan – March, **Project Intern, Data Sutram, Rabindra Sarovar, Kolkata.**
 2019 Analyzed, visualized and gained valuable insights from data.
- Sep., 2018 **Key-note Speaker, (sponsored by Google), MLCC-SXC, St. Xavier's College, Kolkata.**
 Created course work and delivered lectures for Machine Learning Crash Course seminars.
- Nov. 2017 – **Developer, Xavotsav 2018 Website, Designed a website for the cultural fest of St. Xavier's College, Kolkata, with our team.**
 Jan. 2018

Selected Open Source Softwares

- Feb 2019 **Jimutmap** A tool to download satellite images and road maps with ease.
 o Used for testing deep learning algorithms. Over **15K total downloads** from **python3-pip** package.
- Jan. 2019 **Jimner** Create ASCII Art writing for terminal.
 o Generated banner of **314 samples** of styles using Python-3.
- Nov. 2018 **Management Information System: A CRUD (Create Read Update Delete) system built using Python3 and Tkinter from scratch.**

Online Specializations

- Dec. 2019 **Deep Learning Specialization, DeepLearning.AI, Coursera - License: TUKRVHKG2SJW.**
- March 2019 **TensorFlow in Practice Specialization, DeepLearning.AI, Coursera - License: 88P8SNNTFTH.**
- Sep. 2018 **Applied Data Science Specialization, IBM, Coursera - License: K36A43C6J3N7.**
- Jan. 2018 **Python for Everybody Specialization, University of Michigan, Coursera - License: RQHE57YQZ2ZW.**

Leadership

- Aug. 2018 – **Coordinator & Teacher, National Service Scheme (NSS)** – Coordinated and organized
Jan. 2019 tours (four times) for educating the unprivileged in a nearby village. This was part of
curriculum (social work) at St. Xavier's College, Kolkata.
- Feb 2019 **Event Head of ENIGMA** – Planned, organized and executed the annual coding event of
Science Association, St. Xavier's College, Kolkata.
- July – Sep., **Head of Graphics Design Team, Analytica (Dept. of Mathematics)** – Lead and planned
2018 a team of 5 highly motivated designer to create and design all the graphics content that
were used at the event in St. Xavier's College, Kolkata.

Miscellaneous

- June 2019 – Documented **blogs** during free time. Maintained a page for PDF writings.
- 2017 – 2018 Created several **games** during B.Sc. in St. Xavier's College. The games can be played
online from Projects page.
- Jan. 2016 Selected in the second phase of **Service Selection Board (SSB), Indian Army.**

References

Tamal Maharaj (tamal@gm.rkmvu.ac.in)
Dripta Mj (dripta.rkm@gmail.com)
Swathy Prabhu Mj (swathyprabhu@gmail.com)
Prof. Shalabh Agarwal (shalabh@sxccal.edu)