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. 2021 **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 - July 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 - July 2021 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). Real time object detection can be embedded on low powered devices. International Journal of Computer Sciences and Engineering.

2018	Pal, J. B., & Nath, A. (2018). New approach to generate, re-generate, encode, and compress 3d structures using polynomial equations. *International Journal of Computer Sciences and Engineering.*
Oct. 2018	Pal, J., & 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 – April, 2020	**Computer Application teacher, *RKMVERI*, Belur, Howrah.** 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, 2019	**Project Intern,** *Data Sutram,* Rabindra Sarovar, Kolkata. 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 – Jan. 2018	**Developer**, ***Xavotsav 2018 Website***, *Designed a website for the cultural fest of St. Xavier's College, Kolkata, with our team.*

Selected Open Source Softwares

Feb 2019	**Jimutmap** *A tool to download satellite images and road maps with ease.* ○ Used for testing deep learning algorithms. Over **15K total downloads from python3-pip package**.
Jan. 2019	**Jimner** *Create ASCII Art writing for terminal.* ○ 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: 88P8SNNTEFTH.
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 – Jan. 2019	**Coordinator & Teacher,** *National Service Scheme (NSS)* – Coordinated and organized 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)