Jimut Bahan Pal

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"Researching innovative Deep Learning solutions."

Education

2022 – Present	**Ph.D.** Centre for Machine Intelligence and Data Science, *Indian Institute of Technology Bombay*
2019 – 2021	**M.Sc. in Computer Science,** *Ramakrishna Mission Vivekananda Educational and Research Institute,* Belur, Howrah.

○ 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.

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

Awards & Accolades

June 2022	**C-MInDS fellowship** for getting the **highest entrance test and interview scores in IIT Bombay**
Feb. 2022	**Qualified in UGC-NET 2021,** for Assistant Professor.
March. 2022	**Qualified in GATE 2021 and 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

Book Chapters

July 2021	**Pal, J.B.** (2022). Holistic Network for Quantifying Uncertainties in Medical Images. In: Crimi, A., Bakas, S. (eds) Brainlesion: Glioma, Multiple Sclerosis, Stroke and Traumatic Brain Injuries. BrainLes 2021. Lecture Notes in Computer Science, vol 12963. Springer, Cham. https://doi.org/10.1007/978-3-031-09002-8_49

Journals

Feb. 2021 - July 2021 **Pal, J. B.**, Bhattacharyea, A., Banerjee, D., & Maharaj, T. (Accepted). Instance segmentation of peripheral blood smear and refining classification via domain adaptation. Computer Methods in Biomechanics and Biomedical Engineering (Imaging & Visualization) 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)

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.*

o Used for testing deep learning algorithms. Over **Over 20K 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.*

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., 2018 **Head of Graphics Design Team**, *Analytica (Dept. of Mathematics)* – Lead and planned 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.

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.

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

On Request.