# Jimut Bahan Pal

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## Education

**Ramakrishna Mission Vivekananda Educational and Research Institute** — *Belur, Howrah*

M.Sc. in Computer Science, CGPA: 8.99/10.0 — *June 2019 - June 2021*

**St. Xavier's College** — *Park Street, Kolkata*

B.Sc. (Hons.) Computer Science, CGPA: 7.46/10.0 — *May 2016 - May 2019*

- **Analytica** — ***Head of Graphics Design Team***, *Mathematics Department*
- **ENIGMA** — ***Event Head***, *Science Association, Coding Event*
- **Key-note Speaker** — *Google,* ***MLCCSXC***
- **SSB** — *Extracurricular, Indian army*
- **NSS (National Service Scheme)** — *Coordinated tours (four times) for educating the unprivileged, Social Work*
- **Developer** — ***Xavotsav Website***

## Skills

**Languages** Python, C++, Java, C, JavaScript, CSS, HTML, LaTeX

**Frameworks** Tensorflow, Keras, Pytorch, Jekyll

## Experience

**Data Sutram** — *Rabindra Sarovar, Kolkata*

Project Intern — *Jan 2019 (1 mo)*

- Gained Valuable insights from data by scraping data sources
- Created Visualizations

## Projects

**DRRMSAN: Deep Residual Regularized Multi-Scale Attention Networks for segmentation of medical images** — *RKMVERI*

[ ]| [ **SLIDES** ] — *August 2020 - February 2021*

- A novel Deep learning architecture is proposed which can segment images at multiple scales, leading to high dice coefficient in majority of challenging datasets.
- A novel attention module is proposed, loss at different scales are optimised and segmentation masks are added using Bayesian Optimization.

**CAPTCHA** — *RKMVERI*

[ ] [ **SLIDES** ] [ **ArXiv:2006.11373** ] — *March 2020 - June 2020*

- Deceiving computers in Reverse Turing Test through Deep Learning.
- We have obtained about more than 99.5% accuracy on most of the models, which converges at about 5 epochs

**Wisp** — *St. Xavier's College, Kolkata*

[ ] [ **SLIDES** ] [ **ArXiv:2002.05886** ] — *August 2018 - June 2019*

- A real time preference based location finder application is built.

**Jimutmap** — *Datasutram*

[ ] [ **PYPI PACKAGE 1.3.7** ] — *January 2019 - February 2019*

- This manually brute forces apple-map.
- It scraps all the tiles (image and road mask pair) as given by the parameters provided by the user.
- This uses an API-key generated at the time of browsing the map.

**MIS** — *St. Xavier's College, Kolkata*

[ ] — *January 2018 - May 2018*

- Management Information System in tkinter.

**Jimner** *St. Xavier's College, Kolkata*

[ ] [ PYPI PACKAGE 1.2.3 ] *January 2019 - February 2019*

- Banner for terminal.
- Total of 314 fonts are present.

**JGD** *St. Xavier's College, Kolkata*

[ ] *August 2019 - August 2019*

- This program scraps and download every public repo present out there without any auth/token.
- Useful when you just need to download files of a folder, and not the whole repo.

**Games** *St. Xavier's College, Kolkata*

[ PROJECTS ] *August 2017 - February 2019*

- Roller Madness Game - [ ▶ Play ] [ ] [ ] [ ] — Game built in Unity3D to collect coins before zombie catches you.
- Box Shooter Game - [ ▶ Play ] [ ] [ ] [ ] — Game built in Unity3D to shoot boxes before time runs out.
- Super Sparty Brothers 2D - [ ▶ Play ] [ ] [ ] [ ] — Mario type game built in Unity3D.
- Solar System Simulation - [ ▶ Play ] [ ] [ ] [ ] — Simulation using Unity3D.
- FPS GAME beta - [ [ ] [ ] [ ] — Game built using Unity3D
- Classic Pong Game - [ ▶ Play ] [ ] [ ] [ ] — Game built using Python3 Codeskulptor
- Memory Game - [ ▶ Play ] [ ] [ ] [ ] — Game built using Python3 Codeskulptor
- Stopwatch Game - [ ▶ Play ] [ ] [ ] [ ]— Game built using Python3 Codeskulptor
- Jump and Roll 2D - [ ▶ Play ] [ ] [ ] [ ]— Game built using Javascript

## Certificates

**TensorFlow in Practice Specialization** *DeepLearning.AI*

COURSERA - LICENSE: TUKRVHKG2SJW *December 2019*

**Deep Learning Specialization** *DeepLearning.AI*

COURSERA - LICENSE: 88P8SNNTEFTH *March 2019*

**Applied Data Science Specialization** *IBM*

COURSERA - LICENSE: K36A43C6J3N7 *September 2018*

**Python for Everybody Specialization** *University of Michigan*

COURSERA - LICENSE: RQHE57YQZ2ZW *January 2018*

## Publications


[1] J. B. Pal. Holistic network for quantifying uncertainties in medical images. Accepted at Brain Lesion 2021 MICCAI Workshop, to be published at Springer LNCS.

[2] J. B. Pal and D. Mj. Bmsan: Bayesian multi-scale attention networks for segmentation of medical images. (under review).

[3] J. B. Pal and N. Paul. Classifying chest x-ray covid-19 images via transfer learning. Accepted at Conference on Ethics and Explainability for Responsible Data Science, to be published in IEEE Access.