Jimut Bahan Pal

M.Sc. Canditate

☎ (890) 220-9098 | ✉ jpal.cs@gm.rkmvu.ac.in | 🏠 jimut123.github.io | ⓞ Jimut123 | in jimut-bahan-pal-156862123

Education

Ramakrishna Mission Vivekananda Educational and Research Institute *Belur, Howrah*
M.Sc. in Computer Science, CGPA: 8.51/10.0 *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. How to cluster nearest unique nodes from different classes using jjcluster in wisp application?, 2020.

[2] J. B. Pal and D. Mj. Drrmsan: Deep residual regularized multi-scale attention networks for segmentation of medical images. (Ongoing).