Jimut Bahan Pal

M.Sc. Canditate

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Education

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

M.Sc. in Computer Science, CGPA: 9.46/10.0   *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

[⬡] [ᴘʏᴘɪ ᴘᴀᴄᴋᴀɢᴇ 1.2.3]

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

St. Xavier's College, Kolkata
January 2019 - February 2019

JGD

[⬡]

- 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.

St. Xavier's College, Kolkata
August 2019 - August 2019

Games

[🦊 ᴘʀᴏᴊᴇᴄᴛs]

- 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

St. Xavier's College, Kolkata
August 2017 - February 2019

Certificates

TensorFlow in Practice Specialization

Cᴏᴜʀsᴇʀᴀ - Lɪᴄᴇɴsᴇ: TUKRVHKG2SJW

DeepLearning.AI
December 2019

Deep Learning Specialization

Cᴏᴜʀsᴇʀᴀ - Lɪᴄᴇɴsᴇ: 88P8SNNTEFTH

DeepLearning.AI
March 2019

Applied Data Science Specialization

Cᴏᴜʀsᴇʀᴀ - Lɪᴄᴇɴsᴇ: K36A43C6J3N7

IBM
September 2018

Python for Everybody Specialization

Cᴏᴜʀsᴇʀᴀ - Lɪᴄᴇɴsᴇ: RQHE57YQZ2ZW

University of Michigan
January 2018

Publications

[1] J. B. Pal and D. Mj. Bmsan: Bayesian multi-scale attention networks for segmentation of medical images. (Work in progress).