



SHAMINDRA PARUI
Associate Software Developer
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Professional Summary

Developer, skilled in deep learning (Computer Vision), with experience of transforming data to production grade solutions.

Work History

Gnosis Lab, kolkata (October, 2021 - present)

- Consulted with managers to determine and refine deep learning objectives.
- Selected appropriate dataset, data representation methods.
- Ran various experiments by implementing appropriate deep learning algorithms.

Projects

Road Crack Detection System (Prototype) – Gnosis Lab
Implemented the system using image segmentation algorithm (Unet) which highlighted the crack(s) in image of road.

Car Number Plate Detection and Extraction – Gnosis Lab
Annotated the image dataset, trained the object detection (SSD) algorithm to detect number plate. Applied OCR algorithm to extract the number from detected area.

Jewellery Material Prediction – Gnosis Lab
Curated the image dataset, balanced the dataset and implemented multi-label image classification (VGG16, Inception) method to predict existing material within given jewellery image.

Ransomware Detection using Machine Learning – M.Tech
Researched various papers of ransomware detection system, found flaws and along with the proof of claims, implemented the model with novel features.

3-Dimensional Multiway Feedback Encryption Standard – M.Sc
An encryption system that reshapes the given data in cubic structure and applies additive encryption.

Image Steganography – B.Sc

Implemented steganography using alpha channel of an image.

Education

Master of Technology : Computer Science and Engineering (72.77%) (2018 - 2020)
University of Calcutta

Master of Science : Computer Science (56.8%) (2013 - 2016)
St. Xavier's College, Kolkata

Bachelor of Science : Computer Science (60.5%) (2010 - 2013)
Prabhu Jagatbandhu College

Technical Profile

Python, Linux

Image Annotation

Deep Learning :

Image Classification - ANN, CNN

Object Detection - SSD, M-RCNN

Segmentation - Unet, U2Net

Text Classification – LSTM

Transfer Learning - Inception, vgg

Object Tracking - DeepSort

Machine Learning:

Classification

Regression

Tensorflow

Address

WB, India