ABHINAV SAGAR

64 Greens Radius Developers, Santacruz, Mumbai, India

CONTACTS

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Github - https://github.com/abhinavsagar
Google Scholar - https://scholar.google.com/citations?user=5ntkLcgAAAAJ

EDUCATION

Vellore Institute of Technology, Vellore *July 2016 - June 2020*
Bachelor of Technology

EXPERIENCE

Tessact, Mumbai May 2019 - Jun 2019
Intern

· - Designed a machine learning model from scratch for product recommendation using variational autoencoder.
· - The algorithm scored a mean average precision value of 0.86 which on deployment led to 23 percent increase in sales for the company.

Tata Group, Jamshedpur Jun 2018 - Jul 2018
Intern

· - Trained a neural network on power grid electricity consumption data to predict the load 24 hours ahead of the actual generation.
· - My work was later refined and deployed by current engineers. It is currently being used and has boosted upto 20 percent energy in the plant.

RESEARCH PAPERS

Abhinav Sagar
Bayesian Multi Scale Neural Network for Crowd Counting
https://arxiv.org/pdf/2007.14245

Abhinav Sagar, Rajkumar Soundrapandiyan
Semantic Segmentation With Multi Scale Spatial Attention For Self Driving Cars
https://arxiv.org/pdf/2007.12685

Abhinav Sagar
Generate High Resolution Images With Generative Variational Autoencoder
https://arxiv.org/pdf/2008.10399

Abhinav Sagar
Uncertainty Quantification using Bayesian Neural Networks for Biomedical Image Segmentation
https://arxiv.org/pdf/2008.07588.pdf

Abhinav Sagar
RUHSNet: 3D Object Detection Using Lidar Data in Real Time
https://arxiv.org/pdf/2006.01250.pdf

Abhinav Sagar
HRVGAN: High Resolution Video Generation using Spatio-Temporal GAN
https://arxiv.org/pdf/2008.09646

Abhinav Sagar
Monocular Depth Estimation Using Multi Scale Neural Network And Feature Fusion
https://arxiv.org/pdf/2009.09934

Abhinav Sagar
Generate Novel Molecules With Target Properties Using Conditional Generative Models
https://arxiv.org/pdf/2009.12368

PROJECTS

Cryptocurrency Price Prediction Using LSTM neural network
https://github.com/abhinavsagar/cryptocurrency-price-prediction

Launch machine learning models into production using flask, docker etc.
https://github.com/abhinavsagar/machine-learning-deployment

Breast Cancer Classification using CNN and transfer learning
https://github.com/abhinavsagar/breast-cancer-classification

Predicting the winner of 2019 cricket world cup using random forest algorithm
https://github.com/abhinavsagar/ICC-2019-WC-prediction