

ABHINAV SAGAR

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CONTACTS

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Medium - <https://medium.com/@abhinav.sagar>

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 Neural Network via Stochastic Gradient Descent

<https://arxiv.org/pdf/2006.08453>

Abhinav Sagar

Bayesian Multi Scale Neural Network for Crowd Counting

<https://arxiv.org/pdf/2007.14245>

Abhinav Sagar, Rajkumar Soundrapandian

Semantic Segmentation With Multi Scale Spatial Attention For Self Driving Cars

<https://arxiv.org/pdf/2007.12685>

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Generate High Resolution Images With Generative Variational Autoencoder

<https://abhinavsagar.github.io/files/gvae.pdf>

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Stochastic Bayesian Neural Networks
<https://arxiv.org/pdf/2008.07587.pdf>

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

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Learning to Detect 3D Objects from Point Clouds in Real Time
<https://arxiv.org/pdf/2006.01250.pdf>

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HRVGAN: High Resolution Video Generation using Spatio-Temporal GAN
<https://abhinavsagar.github.io/files/hrvgan.pdf>