

ABHINAV SAGAR

64 Greens Radius Developers, Santacruz, Mumbai, India

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 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://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>