

Roshan Nrusing Swain

swainroshan001@gmail.com | (+91)9326457224 | [linkedin.com/in/snroshan](https://www.linkedin.com/in/snroshan)

PROFILE

A creative and disciplined undergraduate student seeking majors in Electrical Engineering at National Institute of Technology, Agartala with passion towards Machine Learning and Quantum Computing. Well-versed with Machine Learning to develop and deploy data-driven solutions.

KEY SKILLS

- **Frameworks** : Pytorch, Tensorflow, Flask.
- **ML Libraries** : Scikit-Learn, Keras, Seaborn, Matplotlib, Pycaret, Pandas, Numpy.
- **Development** : Android app development with Flutter.
- **Cloud** : Managing, Deploying and Monitoring cloud resources to Kubernetes.
- **Software Languages**: C, C++, Python, R, Dart, HTML.
- **Databases** : MongoDB, MySQL.
- **Problem-Solving** : Well-versed with Machine Learning and Computation algorithms to solve complex problems.
- **Team Work** : Ability to work in team.

EXPERIENCE

Machine Learning Engineer Intern , MindKosh (March 2021- today)

- Working on developing image annotation tool.

Deep Learning with Pytorch , GANs | project (Jan 2021)

3 member team

- Using General Adversarial Networks, designing generators and discriminators to generate anime faces.

Pulsar Star Prediction with Machine Learning, predictive modeling | project(Jan 2021)

2 member team

- Using features obtained from DM-SNR and Integrated pulse profile to develop a ML working model to classify potential pulsar stars.

Malarial Cell Detection, classification | project (Jan 2021)

2 member team

- Using CNN to classify images with parasitized malarial cells in pytorch.
- Optimizing the model to give accuracy around 96.64 % in test dataset.

Student Intern, ONGC Ltd. (Dec 2020-jan 2021)

- Group project on design and implementation process of 5KW Solar Power Plant to promote renewable energy sources.

German Traffic Sign Prediction with Deep Learning, classification | project(Dec 2020)

- Using data augmentation techniques and ResNet9 architecture for classifying 43 different traffic signs.
- Model was built on PyTorch with an overall accuracy of 99.8% accuracy.

Google Cloud Computing, cloud services | Qwiklabs(Oct 2020)

- Creating and managing cloud resources, building secure networks in Google Cloud.
- Performing foundational Infrastructural tasks in Google Cloud.

EDUCATION

Bachelor of Technology in Electrical Engineering(2018-2022)

National Institute of Technology Agartala, India

Score: 8.61/10

Additional Courses and Trainings

Quantum Computing , IBM x QubitByQubit | Ongoing

- Learning fundamentals of quantum computing like superposition principle, and quantum entanglement.
- Working with qiskit in lab to learn and create quantum circuits.

Statistics with R, Duke University | Coursera | Ongoing

- Learning Inferential statistics and different statistical methods to deal with data using R for computation.

DeepLearning with Pytorch, Jovian.ai | Completed

- Learning Deep Learning algorithms and implementing them to create neural networks for predictive modeling and generative modeling.

Machine Learning Bootcamp, dphi.org | Completed

- Learning and participating in 3 Hackathons for Machine Learning to solve real-life problems.

Google Cloud Training, Qwiklabs | Completed

- Hands on google cloud training for managing cloud resources in google cloud.
- Building pipeline structure, secure networks and deploying apps to kubernetes.

COMMUNITY SERVICE

Volunteer, Hacktoberfest organized by DigitalOcean (Oct 2020)

- Open source contribution by making four valid pull-requests.
- Maintainer of Open Source repository which works in developing algorithmic and fast solutions for competitive programming and interview problems.

ACHIEVEMENTS

Line Follower Robot Competition | Second RunnerUp | 2 man team

- Built a line follower robot using Arduino and developed algorithms for complex tracks.

Languages

- **English:** Proficient Level
- **Hindi:** Native Level