Rahul Bhalley

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Those who are possessed by their passion are the ones who actually put a dent in this universe

EDUCATION

DAV Public School, Ludhiana, Punjab, India

■ X class 2012

• CGPA: 8.4/10.0

■ XII (Non-Medical) class 2015

• Percentage: 81%

Guru Nanak Dev Engineering College, Ludhiana, Punjab, India

Bachelor of Technology in Information Technology
 2015 – Pres

2015 – Present (Graduation Year - 2019)

PUBLICATIONS

CONFERENCES

[1] Sharma, A. S., Bhalley, R. (2016, September). **ASR—A real-time speech recognition on portable devices**. In Advances in Computing, Communication, Automation (ICACCA)(Fall), International Conference on (pp. 1-4). IEEE. [3 Citations]

PREPRINTS

[1] Bhalley, R., Su J. (2019, February). **Artist Style Transfer Via Quadratic Potential**. arXiv preprint: 1902.11108.

OPEN SOURCE WORKS

FRAMEWORKS

■ Swift Tensor Author

Featherweight tensor processing library in Swift.

RESEARCHES

• WaveGAN: Adversarial Audio Synthesis Author

Unofficial PyTorch implementation of **Adversarial Audio Synthesis**.

■ Wasserstein GAN in Swift for TensorFlow Author

Open source implementation of research paper Wasserstein GAN in Swift for TensorFlow.

Artist Style Transfer Via Quadratic Potential Author

Official PyTorch implementation for my research paper Artist Style Transfer Via Quadratic Potential.

■ GAN-QP Author

Unofficial PyTorch implementation of GAN-QP: A Novel GAN Framework without Gradient Vanishing and Lipschitz Constraint.

■ Turing GAN Author

Unofficial PyTorch implementation of **Training Generative Adversarial Networks Via Turing Test**.

Progressive Growing of GANs Author

Unofficial PyTorch implementation of Progressive Growing of GANs for Improved Quality, Stability, and Variation.

AlexNet Author

Unofficial TensorFlow implementation of **AlexNet** architecture.

WRITINGS

- Wasserstein GAN in Swift for TensorFlow in *Towards Data Science* on *Medium* [200+ Views] Explain how I wrote the first-ever implementation of Wasserstein GAN in Swift for TensorFlow framework
- Understanding Swift for TensorFlow in Towards Data Science on Medium [7.5K+ Views]
 Explains the adaptation of Swift for TensorFlow framework
- PGGAN Creates Realistic Faces in Towards Data Science on Medium [2.2K+ Views]
 An article about the recent advances in generative modeling research of neural networks on exponentially improved quality of synthesized images
- Digit recognition in Towards Data Science on Medium [4K+ Views]
 An introduction article to perform MNIST digit recognition using k nearest neighbor algorithm

SKILLS PROGRAMMING LANGUAGES

- Swift
- Python

DEEP LEARNING FRAMEWORKS

- PyTorch
- Swift for TensorFlow
- TensorFlow 2.0
- Keras

NEURAL NETWORKS

- Generative Adversarial Networks (GANs)
- Convolutional Neural Networks (CNNs)
- Recurrent Neural Networks (RNNs)
- Auto-Encoders (AEs)

DEEP LEARNING APPLICATIONS

- Image Generation
- Image Labelling
- Image Style Transfer

CLOUD SERVICES

Amazon Web Services (AWS)