

Devikalyan Das

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Saarbrücken, Germany



EDUCATION

- **M.S. Visual Computing, CGPA: 1.5 / 4**
Universität des Saarlandes
2020 - present
- **B.Tech. Electronics and Telecommunication, CGPA: 8.04 / 10**
Veer Surendra Sai University of Technology, India
2013-2017

EXPERIENCE

- **Research Assissant** *1 year, 3 months*
DKFI, Kaiserslautern & ANNA/C-TRUS
Working on designing automated cancer grading AI systems for grading cancer histopathology images
May 2021 - Present
- **Research Fellow** *9 months*
National Institute of Technology, Surathkal, India
Worked on designing Automated Cancer Detection System for segmenting and classifying the nuclei from liver and kidney histopathology images
December 2019 - August 2020
- **Software Engineer** *1 year, 7 months*
Tech Mahindra Ltd, Bhubaneswar, India
Designed and delivered data reporting and analytics solutions for Finance and Manufacturing domains.
May 2018 - December 2019

SKILLS

- **Languages**
Python, C++, SQL, PostgreSQL, Git
- **Frameworks**
Pytorch, Tensorflow, Keras
- **Tools**
MatLab, Talend, Alteryx, Tableau

SELECTED PUBLICATIONS

- NucleiSegNet: Robust deep learning architecture for the nuclei segmentation of liver cancer histopathology images [Link]
- Novel edge detection method for nuclei segmentation of liver cancer histopathology images. [Link]
- Efficient deep learning architecture with dimension-wise pyramid pooling for nuclei segmentation of histopathology images [Link]
- Image quality restoration framework for contrast enhancement of satellite remote sensing images [Link]

SELECTED PROJECTS

- **Rendering Competition 2021/22** [Code]
A 3D renderer to render a scene for rendering competition at Saarland university for Computer Graphics
C++
- **Semantic Segmentation using Pytorch** [Code]
Performed Semantic Segmentation of a multi-class dataset and compared the result
Python, Pytorch
- **Super Resolution using GAN** [Code]
Carried out a novel GAN based architecture for super-resolution with wider activation channels, regularization in the network and a novel loss function based on LPIPS
Python
- **Optimizers in OOD generalization** [Code]
Impact of hyper-parameters on OOD generalization in Deep learning
Python