Devikalyan Das

devikalyandas9067@gmail.com

+49 17677990182 | Webpage | GitHub

Saarbrücken, Germany

EDUCATION

- **M.S. Visual Computing, CGPA: 1.7 / 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**   *2 months*
  Modeling and Simulation Group, UDS
  Working on generative modeling in the intersection of GANS and Diffusion Models
  July 2023 - Present

- **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 - June 2023

- **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]

SELECTED PROJECTS

- **Pokemon Diffusion** [Code]
  An end-to-end diffusion model using a classifier-free guidance approach for image generation of Pokemon
  Python

- **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