

Ankit

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EDUCATION

University of Amsterdam

Masters in Artificial Intelligence - 7.67/10

Amsterdam, Netherlands

August 2021 – Present

National Institute of Technology Tiruchirappalli

Bachelor of Technology, Electronics and Communication Engineering- 8.94/10

Tiruchirappalli, India

July 2017 – July 2021

TECHNICAL SKILLS

Languages: Python, PostgreSQL

Developer Tools: Git, Docker, Wandb, Linux

Frameworks and Libraries: Pandas, Matplotlib, PyTorch, PyTorch Lightning, OpenCV, Scikit-Learn, Flask, Classy Vision

EXPERIENCE

Machine Learning Engineer Intern

Sensity AI

June 2022 – Present

Amsterdam, Netherlands

- Contributed to Sensity's ID Verification and Document Authentication services
- Implemented and trained various Deep Learning architectures in Classy Vision a PyTorch-based framework: ResNet-50, MobileNetV2, SiameseNet, and Dual Attention Network
- Scripting in Python and OpenCV for Synthetic Dataset Generation
- Scripting dockerfile and yaml templates to create docker development containers

Remote Deep Learning Research Intern

Pattern Recognition Lab, Friedrich-Alexander-Universität Erlangen-Nürnberg

April 2020 – August 2020

Erlangen, Germany

- Developed a Differentiable Trainable Renderer for Generative Adversarial Networks using Mitsuba2 and PyTorch
- Optimized scene parameters with Adversarial Loss for Synthetic Image Rendering of Silicon dioxide nanoparticles

Machine Learning Research Intern

Visual Computing and Analytics Lab, Indian Institute of Technology B.H.U

May 2019 – July 2019

Varanasi, India

- Developed an algorithm for Breast Cancer Histopathological Image Classification
- Implemented SVM, Random Forest, Naive Bayes and XGBoost classifiers using the features extracted by the algorithm which resulted in a test accuracy of 97.91%

KEY COURSES TAKEN

AI: Machine Learning-1, Computer Vision-1, Deep Learning-1, Deep Learning-2, Reinforcement Learning

Mathematics: Linear Algebra, Multivariate Stochastic Calculus, Probability Theory and Random Processes, Transforms, Real Analysis and Partial Differential Equations, Optimization Techniques

Computer Science: Data Structures, Operating Systems, Database Management Systems

PUBLICATIONS

Ankit Ankit, Sameer Ambekar, Baradwaj Varadharajan, Mark Alence. (2022). [Re] Counterfactual Generative Networks. Rescience C, 8(2)

Sameer Ambekar, Matteo Tafuro, Ankit Ankit, Diego van der Mast, Mark Alence, and Christos Athanasiadis. Skdcgn: Source-free knowledge distillation of counterfactual generative networks using cgans, arXiv 2022

LEADERSHIP EXPERIENCE

President, Office of International Relations

NIT Tiruchirappalli

September 2020 – May 2021

Tiruchirappalli, India

- Managed a team of 25+ members, spearheading campus internationalization policies under the ambit of the administration body of the Institute
- Organized webinars on International Research Internships and higher education through alumni network
- Supervised the completion of NIT Tiruchirappalli's research portal to foster research exchanges on a global scale alongside facilitating industry-institute collaborations locally

VOLUNTEERING EXPERIENCE

International Exchange Global Volunteer at AIESEC in Poland

Local Committee Wrocław University of Technology

May 2018 – June 2018

Wrocław, Poland

- Worked on project 'Understand' under the Sustainable Development Goal (SDG) Reduced Inequalities
- Took interactive sessions with over 1000 students aged 16-19