




# Aneesh Dahiya

ML Engineer

## CONTACT ME

 dahiyaaneesh.github.io

 India

 Zurich, Switzerland

## EDUCATION

**M.Sc. in IT and EE** 2018 - 2021  
ETH Zurich

**B.Tech in EE** 2014 - 2018  
IIT Roorkee

## SKILLS

### Programming languages

- Python (proficient)
- C++ (working knowledge)

### Tech stacks

- Kubernetes
- Airflow
- Spark
- Docker
- OCI

## WORK EXPERIENCE

**ML Research Engineer**  
Oracle Labs | Zurich

Sep 2020 - Present

- Conducted research on representation learning for logs using NLP approaches.
- 4 patents were filed.
- Achieved a 70% improvement in model performance through research efforts.
- Developed custom helm charts for deploying proprietary solutions on OCI.
- Writing efficient data pipelines leveraging OCI Data Science service.

**ML Engineer**  
Barix | Zurich

May 2019 - Jan 2022

- Created an efficient anomaly detector for predictive maintenance for an edge device.
- Launched a paging product as a tech lead to enable intercom messages on BARIX devices. This is a product now Paging Gateway 400.
- Conducted research on noise detection and sound quality estimation using Deep ML models.
- Collaborated with an AI startup during a six-month sabbatical.

**Junior ML Engineer**  
Visium | Zurich

Feb 2020 - Aug 2020

- Developed a time series forecasting model for inventory management for a Swiss Client.
- Deployed ML models as APIs and training pipeline on GCP.
- Prepared aligned trilingual data for training a language translation model, using a shallow neural network enabled with Human feedback.

**Software Engineer**  
Oracle | Bengaluru

Jun 2018 - Aug 2018

- Worked as an Application Engineer in the Responsys team, mainly developing in Java.
- Experienced the processes and software development pipeline in a big Tech Enterprise.

**Research Assistant**  
TUM | Munich

Jun 2018 - Aug 2018

- Experienced a research environment and protocol over the semester break.
- Developed GUI using QT for a C++ toolkit developed by HC S Lab.

## PUBLICATIONS

**PeCLR: Self-Supervised 3D Hand Pose Estimation from monocular RGB via Equivariant Contrastive Learning**

Adrian Spurr\*, **Aneesh Dahiya\***, Xi Wang, Xucong Zhang, and Otmar Hilliges



Paper was accepted for oral presentation at ICCV 2021 and achieved SOTA on Hand Pose estimation

**Exploring self-supervised learning techniques for hand pose estimation**  
**Aneesh Dahiya**, Adrian Spurr, and Otmar Hilliges

PMLR 2021, presented at PreScience Workshop at NeurIPS 2020