

# SUDHAKARAN JAIN

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## EXPERIENCE

### Machine Learning Engineer

#### Springer Nature AI Lab (formerly Slimmer AI)

📅 September 2021 – Present

📍 Groningen

- Proficiently applying cutting-edge machine learning to automate complex document screening processes and thereby developing robust AI-based software products for the organization. Specializing in developing deep learning models adept at detecting AI-generated images and forgeries, ensuring data integrity.
- Responsible for end-to-end processes including model training, optimization, and deployment on cloud platforms for various tasks such as object detection, segmentation, classification, and representation learning.
- Consistently dedicated to enhancing model performance, inference speed, and streamlining MLOps workflows using a core tech stack that includes Pytorch, Vertex AI, Docker, TensorRT, Cloud Run (GCP), Web APIs.
- Conducting unit testing, and performing comprehensive code reviews utilizing fundamental concepts such as data structures, CI/CD, and version control.
- Actively engaged in the company's AI fellowship research program, exploring diverse AI modalities. Contributed to and led research projects spanning NLP, RL, and multi-modal learning.
- Mentoring & collaborating with interns on applied-AI research projects.

### Machine Learning Intern

#### Breeze

📅 February 2021 – August 2021

📍 Delft

- Researched and enhanced reciprocal recommendation algorithm by integrating machine learning techniques.
- Developed deep learning models for detecting human faces, predicting facial occlusions, determining attractiveness, pose estimation, etc.
- Worked extensively on transfer learning, feature extraction, fine-tuning as well as building the complete pre-processing step required.

### Graduate Teaching Assistant

#### University of Groningen

📅 September 2019 – January 2020

📍 Groningen

- Courses: Statistics for AI and CS (B.Sc), Pattern Recognition (M.Sc)

### Assistant System Engineer

#### Tata Consultancy Services

📅 October 2016 – June 2018

📍 Mumbai

- Worked as SAP ABAP developer for an Indian Retail client.
- Mainly implemented SQL programs that performed data processing as per the business requirements.

## PUBLICATIONS

### 3D\_DEN: Open-ended 3D Object Recognition using Dynamically Expandable Networks

#### IEEE Transactions on Cognitive and Developmental Systems

📅 March 2020 – November 2020

📍 Groningen

- **M.Sc Thesis:** A neural network model that can keep on learning to recognize new 3D object classes without catastrophically forgetting known ones. The model is expanded dynamically with more neurons and trained when accuracy falls below a threshold.

## EDUCATION

### M.Sc - Artificial Intelligence

#### University of Groningen

📅 Sep 2018 – Nov 2020

📍 Netherlands

### B.E - Computer Science

#### University of Mumbai

📅 Aug 2012 – May 2016

📍 India

## TECHNICAL SKILLS

**Languages:** Python, Matlab, C, Shell, SQL

**Frameworks:** Pytorch, Keras, Tensorflow, Hugging Face, Docker, Vertex AI, TensorRT, Flask, Django

**Cloud:** GCP

## STRENGTHS

Machine Learning

Deep Learning

Reinforcement Learning

Computer Vision

NLP

Data Structures

Database Management Systems

## OTHER INFORMATION

English

Hindi

Dutch

EU Residence: The Netherlands

