

SUDHAKARAN JAIN

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EXPERIENCE

Machine Learning Engineer

Slimmer AI

📅 September 2021 – Present

📍 Groningen

- Proficiently applying cutting-edge machine learning techniques to address intricate computer vision challenges and developing robust AI-powered software products that bring tangible value to the organization.
- Adeptness in both researching and implementing innovative custom ML solutions, while also optimizing existing models. Particularly skilled in training efficient models that excel at detecting synthetic images, identifying duplicates, and detecting forgeries, thereby preserving image integrity.
- Extensive expertise in deep learning algorithms, including object detection, segmentation, and classification, leading to the successful deployment of these sophisticated models that drive accurate results.
- Conducting unit testing, and performing comprehensive code reviews with a solid understanding of 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, speech synthesis, and multi-modal representation 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, Pandas, Hugging Face, Docker, 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

