SUDHAKARAN JAIN

@ sudhakaran.cj@gmail.com   sudhakaranjain.github.io   github.com/sudhakaranjain   linkedin.com/in/sudhakaran-jain

EXPERIENCE

Junior Machine Learning Engineer
Slimmer AI

📅 September 2021 – Present   📍 Groningen

- Proficient in applying cutting-edge machine learning techniques to address complex computer vision challenges and developing robust AI-powered software products that drive tangible value for the organization.
- Skilled in researching and implementing innovative custom ML solutions while optimizing existing algorithms. Notably, adept at training efficient models to detect synthetic images, identify duplicates, and detect forgeries, thereby ensuring image integrity is maintained.
- Extensive experience with deep learning algorithms, including object detection, segmentation, and classification.
- Strong expertise in conducting unit testing, performing code reviews, and demonstrating 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, speech synthesis, reinforcement learning, and multi-modal representation learning.

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

Master of Science *(Artificial Intelligence)*
University of Groningen

📅 September 2018 – November 2020   📍 Netherlands

Bachelor of Engineering *(Computer Science)*
University of Mumbai

📅 August 2012 – May 2016   📍 India

TECHNICAL SKILLS

Languages: Python, Matlab, Java, C, R

Databases: PostgreSQL, OpenSQL, Oracle

Frameworks: Pytorch, Keras, Tensorflow, Docker, Flask, Django

Platforms: Windows, Linux, GCP

STRENGTHS

Machine Learning	Deep Learning
Reinforcement Learning	Data Science
Computer Vision	NLP
Operating Systems	Data Structures
Database Management Systems	

CERTIFICATIONS

Oracle database 11g: SQL fundamentals I
Oracle

📅 September 2015   📍 Mumbai

OTHER INFORMATION

English   ●●●●●
Hindi   ●●●●○
Dutch   ●○○○○
Nationality: Indian
EU Residence: The Netherlands