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 techniques to address intricate computer vision challenges and developing robust AI-powered software products that bring tangible value to the organization.
- Researching and implementing innovative custom ML solutions, while also optimizing existing models. Particularly, training models that excel at detecting synthetic images, identifying duplicates, and detecting forgeries, thereby preserving image integrity.
- Building efficient deep learning algorithms including object detection, segmentation, and classification, and supporting the team during cloud deployment.
- 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, speech synthesis, and multimodal 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