SUDHAKARAN JAIN

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EXPERIENCE

Machine Learning Intern
Breeze social

February 2021 – Present | Delft

- Researching and enhancing reciprocal recommendation algorithm by integrating machine learning techniques for a dating app.
- Responsible for building a deep learning model that learns users' preferences for facial features from liked/disliked profile images and thereby predict which profiles to recommend in future.
- Developing a deep learning model to predict attractiveness score for all users based on their facial features.
- Working extensively on transfer learning, feature extraction, fine-tuning as well as building the complete pre-processing step that includes face-detection, face-alignment, pose-estimation and rescaling.

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 (OpenSQL) developer for an Indian Retail client
- Optimized algorithms to reduce space and time complexity of programs that processed huge amount of data.

RESEARCH PROJECTS

Image Inpainting
University of Groningen

April 2018 – June 2019 | Groningen

- Comparative study of cGAN and U-Net implemented to reconstruct missing parts of face images. Trained and tested these networks on a dataset of celebrity faces.

Comparing Reinforcement Learning Algorithms
University of Groningen

November 2018 – January 2019 | Groningen

- Comparison betweeen performances of CACLA and SPG Reinforcement Learning algorithms on BipedalWalker-v2 environment from OpenAI Gym platform.

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. in Artificial Intelligence
University of Groningen

September 2018 – November 2020 | Netherlands

B.E. in Computer Science
University of Mumbai

August 2012 – May 2016 | India

TECHNICAL SKILLS

Languages: Python | Matlab | Java | R | C

Databases: OpenSQL | Oracle | PostgreSQL

Frameworks: Keras | Tensorflow | Flask

Platforms: Windows | Linux | GCP

COURSEWORK

Machine Learning | Deep Learning | Data Science | Pattern Recognition | Computer Vision | Operating Systems | Natural Language Processing | Data Structures & Algorithms | Database Management Systems

CERTIFICATIONS

Oracle database 11g: SQL fundamentals I
Oracle

September 2015 | Mumbai

Industry Integrated Android Programming-Level 1
Suven Consultants & Technology Pvt Ltd

October 2014 | Mumbai

OTHER INFORMATION

English
Hindi
Dutch
Nationality: Indian
EU Residence: The Netherlands
Zoekjaar Hoogopgeleiden valid till 27-June-2022 (Orientation year Visa)