

# SUDHAKARAN JAIN

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## EXPERIENCE

### Machine Learning Intern

#### Breeze social

📅 February 2021 – Present 📍 Delft

- Enhancing Collaborative Filtering technique by integrating deep learning visual model for profile recommendation in a Dating App. This model learns users' preferences for facial features from liked/disliked profile images and predicts which profiles to recommend in future.

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

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

### Handwriting Recognition

#### University of Groningen

📅 April 2019 – June 2019 📍 Groningen

- Automated handwriting recognition system for Hebrew scripts.

## PREPRINTS

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

#### University of Groningen

📅 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.
- Currently under consideration at [IEEE-TCDS](#).

## EDUCATION

### M.Sc. in Artificial Intelligence

#### University of Groningen

📅 September 2018 – November 2020 📍 Groningen

### B.E. in Computer Science

#### University of Mumbai

📅 August 2012 – May 2016 📍 Mumbai

## TECHNICAL SKILLS

Languages: Python Matlab Java R C

Databases: MySQL Oracle PostgreSQL

Framworks: 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

Tamil

Nationality: Indian

EU Residence: The Netherlands

Zoekjaar Hoogopgeleiden valid till 10-Mar-2022  
(Orientation year Visa)

