

# SUDHAKARAN JAIN

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## EXPERIENCE

### 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
- Gained good exposure on Open SQL
- Optimized algorithms to reduce space and time complexity of programs that processed huge amount of data.

### Course Instructor

#### Don Bosco Institute of Technology

📅 October 2015 – March 2016 📍 Mumbai

- Course: Linux Administration

## PROJECTS

### M.Sc Thesis: Open-ended 3D Object Recognition using Dynamically Expandable Networks 📄 🎓

#### University of Groningen

📅 March 2020 – Present 📍 Groningen

- 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.
- Thesis Grade: 9/10

### 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.
- System pipeline performs pre-processing, segmenting lines/words, training classifier, and creating text files with predictions.

## 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

Python Matlab Java R C

Android SDK SQL SAP ABAP

Keras Tensorflow Flask

Windows Linux

## 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

Eligible for Zoekjaar Hoogopgeleiden  
(Orientation year Visa)

