

# Narendiran Chembu

Data Scientist (starting September 2020) | Amsterdam, The Netherlands

## Education

- 2018-2020 University of Amsterdam (UvA) | The Netherlands**  
Master of Science in **Artificial Intelligence**  
- GPA: 8.27/10 (thesis grade to be included)
- 2013-2017 Indian Institute of Technology Madras (IITM) | India**  
(Ranked No.1 engineering institute of India by the Ministry of HRD, India since 2015)  
Bachelor of Technology in **Mechanical Engineering** (with minor in **Industrial Engineering**)  
- GPA: 8.78/10  
- Cracked one of the most competitive of engineering entrance exams: JEE (2% acceptance)

## Work Experience

- Nov' 2019 8 months ZyLAB** (An e-discovery firm for legal and Govt. orgs) | The Netherlands  
**Data Science Research Intern**  
- Extensively studied the unsupervised cross-domain adaptation of a pre-trained language model (BERT) for entity recognition (from CONLL newswire to Enron email domain)  
- Achieved a 3.2 F1 score improvement over the baseline BERT model
- Jun' 2019 2 months CtCue** (An Information retrieval startup for healthcare industry) | The Netherlands  
**Machine Learning Intern**  
- Built a generative autoencoder (seq2seq LSTM) tool for synthesizing Electronic Health Records (EHR), used in testing the query pipeline system  
- Tackled the problem of realistic discrete-sequential data generation by custom training word2vec embeddings and created tunable results by incorporating tempered-softmax
- Mar' 2019 3 months UvA - Course: Image Processing, Bachelors AI** | The Netherlands  
**Teaching Assistant**  
- Assisted in programming assignment creation and evaluation in MATLAB  
- Provided personal guidance with facetime of 8 hrs/week for the students
- Aug' 2017 10 months IITM - Embodied Cognition** | India  
**Project Associate** (sponsored by the **Defense Research Development Organisation India**)  
- Solely fabricated the perception guided grasping pipeline on the Moveit! stack of ROS as an atomic task, to build the behavior repertoire of the robot with a gripping arm

## Projects

- Sep' 2016 11 months Center For Innovation** (A student run innovation organisation in IITM) | India  
**Software Team, Abhiyaan**  
**Institute robotics team to compete in Intelligent Ground Vehicle Competition - IGVC 2017**  
- Implemented the navigation stack: localisation through sensor fusion by Extended Kalman Filter (EKF), enabling obstacle-avoiding GPS waypoint navigation  
- Designed and simulated the robot in Gazebo to test SLAM and lane-detection algorithms
- May' 2016 3 months National Chemical Laboratory (NCL Pune)** | India  
**Research Internship** (co-authored **Journal paper published in Soft Matter - 2017**)  
- Simulated a Monte-Carlo Brownian dynamics to estimate the number of cubosomes (lipid nano-particles) adsorbed and corroborated with experimental droplet retraction times

## Volunteering and Awards

- **Avanti, NGO (Oct 2013- June 2014)**: Mentored 50+ underprivileged students at Jawahar Navodaya, Pondicherry (11th grade) focussed on cracking Joint Entrance Examination and on overall academic excellence
- Awarded the coveted **INSPIRE award** (Innovation in Science Pursuit for Inspired Research) consecutively for two years **2009 and 2010** by the Department of Science and Technology, India

## Links

-  [Portfolio website](#)
-  [cgnarendiran@gmail.com](mailto:cgnarendiran@gmail.com)
-  [Github](#)
-  [LinkedIn](#)
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## Skills

Python  
C++  
PyTorch  
TensorFlow  
Pandas  
SQL  
PySpark  
ROS  
Git  
Tableau

## Hobbies

Hitchhiking and playing the ukulele