Narendiran Chembu

Data Scientist
(starting September 2020)

Links

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Skills

Python
C++
PyTorch
TensorFlow
Pandas
SQL
Apache Spark
ROS
Tableau

Hobbies

Hitchhiking and playing the ukulele

Profile:

Passionate coder with a strong foundation in probability theory, statistics and linear algebra. Proficient in developing deep learning models and adept with big data processing, thereby creating valuable insights and industry relevant tools such as predictive models and recognition systems

Education:

2018-2020 · **University of Amsterdam** | The Netherlands
Master of Science in **Artificial Intelligence**
- GPA: 8.27/10

2013-2017 · **Indian Institute of Technology Madras** | India
(Ranked No.1 engineering institute of India by the Ministry of HRD, India since 2015)
Bachelor of Technology in **Mechanical Engineering** (minor**: Industrial Engineering**)
- GPA: 8.78/10

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)

Jun' 2019
2 months
CtCue (An Information retrieval startup for healthcare industry) | The Netherlands
Machine Learning Intern
- Built a generative seq2seq LSTM tool for synthesizing Electronic Health Records (EHR), that can be used in testing the query pipeline system

Mar' 2019
3 months
UvA - Course: Image Processing, Bachelors AI | The Netherlands
Teaching Assistant
- Assisted in programming assignment creation in MATLAB and evaluation
- Provided personal guidance with facetime of 8 hrs per week for students of Bachelors AI

Aug' 2017
10 months
IITM - Embodied Cognition | India
Project Associate (sponsored by the Defense Research Development Organisation India)
- Fabricated the perception guided grasping pipeline on the Moveit! stack of ROS as an atomic task to build the behavior repertoire of the robot (includes a gripping arm and autonomous navigation)

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 (a virtual physics environment) to test indoor SLAM and lane-detection computer vision algorithms

May' 2016
3 months
National Chemical Laboratory (NCL Pune) | India
Research Internship (co-authored Journal paper published in Soft Matter - 2017)
- Computed droplet retraction time through image analysis of high speed captured lipid dispersion drop-impact experiments
- Simulated a Monte Carlo Brownian dynamics to estimate the number of cubosomes (lipid nano-particles) adsorbed on the hydrophobic surface

Volunteering and Awards:

- **Avanti, NGO** (2013-2014): Mentored 50+ underprivileged students at Jawahar Navodaya, Pondicherry (11th grade) focussed on cracking Joint Entrance Examination and 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