NEETHU RENJITH

Looking for full time positions in Software Engineering, Machine Learning, Computer vision, Robotics

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PROJECTS

Videos from image using GANs April-Jun, 2019

- Created 3 second videos from a single frame using GANs and generative convolutional LSTMs trained on AWS
- Stylized the videos using multi-style fast neural style transfer

Autonomous food delivery Jan-Mar 2019

- Programmed TurtleBot on a ROS platform to explore miniature city, identify and collect food items efficiently as per user request
- EKF SLAM algorithm was used for mapping the environment from lidar data and mobilenet was used for object identification

Texting Application Oct-Dec, 2019

- Created a multi-client server and supporting client application for windows OS using standard C++ libraries to efficiently handle texts.

Effectiveness of MOOC videos Sept-Dec, 2018

- Used transcript level features to predict course engagement and model user behavior based on click-stream measures
- This work has been presented at the BayLan 2019 conference

Cubesat software development Jan-Mar 2019

- Designed and implemented complete state machine for PandaSat.
- Integrated hardware components through micro-controllers using CircuitPython and performed hardware in the loop simulations

EXPERIENCE

AI for climate change with Prof. Andrew Ng Research assistant

July,2019 CA, USA

- Building a comprehensive database of solar energy production from satellite imagery. This will be integrated with energy sources like wind to create a unified database of global energy production.
- Explore semi-supervised learning methods to handle large unlabeled datasets with minimal hand labelling

Stanford University Teaching assistant

Feb-Dec,2019 CA, USA

- "Information retrieval and web search " with prof. Chris Manning
- "Introduction to control design techniques " with prof.Steve Rock

BayCurrent Consulting Consulting intern

May-June,2017 Tokyo, Japan

- Performed market research and long-term strategy development

National Aerospace Laboratories, CSIR Research intern

May-June,2016 Bangalore, India

- Modeled Particle Image Velocimetry and Background Oriented Schlieren techniques. Analysed missile store separation tests

EDUCATION

MS in Aero/Astro

Stanford University

Sept 2018 – June 2020

B.Tech in Aerospace Engineering

Indian Institute of Technology

May 2014 – May 2018

Minor : Industrial Engineering
Thesis : Coordinated guidance and control of two satellites for rendezvous and docking

ACHIEVEMENTS

- Paper presented at the BayLan 2019 conference: Predicting Clickstream Engagement in MOOCs
- Awarded KC Mahindra scholarship for graduate studies and Merit Cum Means for Undergraduate studies by the Central Govt. of India

COURSEWORK

CNNs for visual recognition
Deep learning
Applied machine learning
Decision making under uncertainty
Computer organization systems
Principles of robotic autonomy
Parallel computing using MPI, openMP CUDA
Mining massive data sets

SKILLS

C++ C Python PyTorch
Tensorflow Spark SQL R*
HTML CSS JavaScript* UNIX
ROS-Robot Operating System
MATLAB AutoCAD
AutoDesk Inventor

* Currently learning