NEETHU RENJITH

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EXPERIENCE

Gridspace Inc. Machine learning software engineer

📅 23 July 2020 - Now   📍 CA, USA

- Headed the development, from ideation to launch, of one of the four main verticals of our new flagship product.
- Part of the product deployment team, in charge of managing releases and customer facing kubernetes realms.
- Mentoring interns for summer internships and conducting interviews for recruiting as a part of the hiring team.
- Integrated core product access with third-party cloud communications platforms. Provides continued on-boarding and technical support for customers who access the product through these platforms.
- Developing Machine Learning algorithms to improve search quality.

AI for climate change with Prof. Andrew Ng Research assistant

📅 15 July - 15 Dec, 2019   📍 CA, USA

- Explored semi-supervised learning methods to handle large unlabeled datasets with minimal hand labeling. Achieved 250% higher accuracy compared to purely supervised methods by utilizing unlabeled data on benchmark datasets.

Stanford University Teaching assistant

📅 15 Feb, 2019-15 Jun, 2020   📍 CA, USA

- "Information retrieval and web search" with prof. Chris Manning
- "Control design techniques" & "Dynamics" with prof. Steve Rock

BayCurrent Consulting Consulting intern

📅 1 May-1 June,2017   📍 Tokyo, Japan

- Performed market research and long-term strategy development.

National Aerospace Laboratories, CSIR Research intern

📅 15 May-15 June, 2016   📍 Bangalore, India

- Modeled Particle Image Velocimetry and Background Oriented Schlieren techniques. Analysed missile store separation tests.
- Analyzed the airfield and studied the impact of a new design surface.

PROJECTS

CNNs for visual recognition **Videos from image using GANs**

- 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.

Machine learning **Effectiveness of MOOC videos**

- 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

Robotic software **Autonomous food delivery bot**

- Programmed TurtleBot on a ROS platform to explore and map miniature city using EKF SLAM.
- Food items identified, during exploration, using pretrained neural net could then be collected efficiently as per user request.

EDUCATION

MS in Aero/Astro
Stanford University

📅 Sept 2018 – June 2020

B.Tech in Aerospace Engineering
Indian Institute of Technology
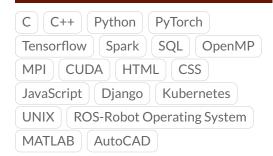
📅 May 2014 – May 2018

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

SKILLS

C   C++   Python   PyTorch
Tensorflow   Spark   SQL   OpenMP
MPI   CUDA   HTML   CSS
JavaScript   Django   Kubernetes
UNIX   ROS-Robot Operating System
MATLAB   AutoCAD

COURSEWORK

CNNs for visual recognition
Deep learning
Applied machine learning
Decision making under uncertainty
Computer organization systems
Principles of robotic autonomy
Mining massive data sets