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