NEETHU RENJITH

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EXPERIENCE

Gridspace Inc. Machine learning software engineer

23 July 2020 - Now CA, USA

- Currently in charge of developing high level functionalities for our **Spoken Dialogue System Authoring Language**. I own this project end-to-end from identifying common customer use cases, to validating, implementing, and testing each functionality to facilitating user adoption.
- Improved performance of **Automatic Speech Recognition System** by designing and implementing taggers and parsers for several types of data. They are being used by our Spoken Dialogue System.
- Headed the development of the call flow manager, **one of the four main verticals of our new flagship product**. Owned 90% of the codebase and **led the product planning from from ideation to launch**. Created a sophisticated web based application using react, capable of supporting billions of calls with a few seconds of compile time.
- Integrated core product access with third-party cloud communications platforms. Provides continued on-boarding and support for customers who access the product through these platforms.
- Developed Machine Learning algorithms to improve search quality of our Knowledge Base Software.
- Part of **the product deployment team**, in charge of managing releases and customer facing kubernetes realms.
- Mentored summer internships and conduct interviews for recruiting as a part of **the hiring team**.

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.

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

TEACHING ASSISTANT

- Control design techniques with prof.Steve Rock (Fall, Winter 2019)
- Information retrieval and web search with prof. Chris Manning and prof.Pandu Nayak (Spring 2019)

SKILLS

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

DATABASES

SQL | PostgresQL | Cockroach | Redis | Elasticsearch | Prometheus