SREEDHAR RADHAKRISHNAN

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA
Master of Science in Information Networking | **Awarded CMU Graduate Scholarship** *May 2021*
Interests: Web Development, Applied Machine Learning and Distributed Systems

PES University, Bangalore, India *August 2014 - May 2018*
Bachelor of Technology in Computer Science and Engineering | **Recipient of Academic Merit Scholarship**
Relevant Coursework: Web Services, Big Data, Algorithms, Machine Learning, Operating Systems, Database Systems
Awarded USC, Viterbi Research Program: Selected as a Research Intern at the University of Southern California.

SKILLS

Programming Languages: Java, Python, Go, JavaScript, C, Pl/SQL
Web Technologies: HTML, CSS, JavaScript, JQuery, AJAX, RESTful Web Services
Cloud Computing and Big Data Technologies: Amazon Web Services, Hadoop Distributed Filesystem, Apache Hive

EXPERIENCE

GE Bangalore, India
Software Development Engineer *August 2018 - June 2019*

- Implemented a data streaming pipeline using **Java, AWS Kinesis and DynamoDB** to monitor GE asset data changes. The pipeline is built for Change Data Capture of over a million assets.
- Implemented RESTful APIs for features involving GE asset search and retrieval using **Golang**.

University of Southern California, Viterbi School of Engineering Los Angeles, CA
Visiting Research Scholar (Deep Learning for Computer Vision) *June 2017 - July 2017*

- Developed a Cycle GAN model for image-to-image translation of labeled Synthetic images (training data obtained from GTA dataset) to their realistic counterpart (training data obtained from Cityscapes dataset).
- The key idea of my research was to show that generation of realistic labeled images becomes trivial when a training sample of the images along with their synthetic counterpart exists.

PUBLICATIONS

- **Sreedhar Radhakrishnan**, Varun Bharadwaj, Varun M, Srinath R. Creative Intelligence - Automating Car Design Studio with Generative Adversarial Networks (GAN). CD-MAKE 2018. link.springer.com/chapter/10.1007/978-3-319-99740-7_11
- **Sreedhar Radhakrishnan**, Jay Kuo. Synthetic to Real World Image Translation Using Generative Adversarial Networks. ICCCNT 2018. ieeexplore.ieee.org/document/8493745

PROJECTS

Creative Intelligence - Automating Car Design Studio With Generative Adversarial Networks (GAN)
Tech Stack: Python (TensorFlow and Flask), HTML, CSS and JavaScript January 2018 - May 2018

- Developed a Web Application for car designers to generate probable designs from a basic car sketch. The application reduces design time and helps in early identification of design flaws.

Centralized Web Service for Multiple Social Networks
Tech Stack: Java, Jax-RS and Jersey August 2017 - December 2017

- Developed REST APIs for posting, reading or updating multiple Social Networks in a single operation.

Image Content Based Recommendation System For Apparels
Tech Stack: Python and openCV January 2017 - May 2017

- Built an image processing pipeline that recommends apparels similar to those worn by actors in videos. Created a blog to share the experiments and learning. **Blog Link:** projectenvision.wordpress.com