SREEDHAR RADHAKRISHNAN

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA | Awarded CMU Graduate Scholarship *Expected: May 2021*
MS in Information Networking | Machine Learning and Artificial Intelligence Track **GPA: 3.93/4.0**
Machine Learning Courses: Machine Learning, Applied Machine Learning, Machine Learning at Scale
Software Engineering Courses: Distributed Systems, Data Driven Software Engineering, Operating Systems

PES University, Bangalore, India | Awarded Academic Merit Scholarship *May 2018*
Bachelor of Technology in Computer Science **GPA: 9.23/10.0**
Coursework: Data Structures, Algorithms, Web Development, Big Data, Natural Language Processing, Information Retrieval

SKILLS

Programming Languages: Java, Python, Go, JavaScript, C, Pl/SQL
Web Technologies and Databases: JavaScript, JQuery, Flask, Go kit, PHP, Vue.js, MySQL, PostgreSQL, DynamoDB
Tools and Frameworks: AWS, Spark, Linux, Docker, MapReduce, TensorFlow, Apache Hadoop, Apache Hive, Git

WORK EXPERIENCE

Adobe Inc San Jose, CA
SDE Intern, Emerging Products Group | **Tech Stack: Python, BERT, Spark, MongoDB, Flask** May 2020 - August 2020

- Successfully designed and developed Adobe Flow - a Natural Language Search and Information Retrieval System using BERT for Language Modelling, Spark for Data Processing, Flask for REST APIs and MongoDB as a NoSQL database.
- The product was successfully deployed to production and presented at the Adobe Photoshop Developer Meetup.

GE Bangalore, India
Software Development Engineer | **Tech Stack: Java, Go, AWS Kinesis, AWS DynamoDB, SQL** August 2018 - June 2019

- Applied Pub/Sub pattern and developed a **Cloud-Native Big Data Pipeline using Java, AWS Kinesis** and **DynamoDB** to stream data changes of over 5 million assets at the rate of 3000 records/second in near real-time.
- Implemented **REST APIs using Go** for retrieval of aircraft engine asset information from over 5 million records.

University of Southern California, Viterbi School of Engineering Los Angeles, CA
Applied Machine Learning Research Intern **(Published at 9th IEEE ICCCNT)** *June 2017 - July 2017*

- Developed a **Cycle GAN model for image translation** of synthetic images to realistic urban scene images. Research use case was in the area of data augmentation for training autonomous vehicles. ieeexplore.ieee.org/document/8493745

PROJECTS

Machine Learning Driven Web Application for Designers (Published at CD-MAKE) *January 2018 - May 2018*

- Developed a Generative Adversarial Networks (GAN) driven application that augments the creativity of car designers by generating multiple designs from a car sketch. **Publication:** springer.com/chapter/10.1007/978-3-319-99740-7_11

RESTful Distributed File System (Carnegie Mellon University) *January 2020 - April 2020*

- Implemented a Distributed File System that coordinates between a naming server and multiple storage servers. Implemented all common file system operations, data replication and custom reader-writer locks for synchronization.

Blockchain Ledger for Trusted Anonymous Voting (Carnegie Mellon University) *January 2020 - April 2020*

- Implemented a fully decentralised Blockchain System using the Proof of Work protocol and SHA-256 hashing algorithm.
- Developed a Voting System using the Proof of Authority Protocol to provide a secure platform to cast votes.

Machine Learning for Human Bias Prediction (Carnegie Mellon University) *January 2020 - May 2020*

- Successfully predicted human bias in sports articles using Logistic Regression, Sequential Minimal Optimization and Decision Trees with test accuracy of 93%, 90% and 85% respectively.
- Implemented error analysis on the feature space to obtain a 20% improvement in accuracy from the baseline model.