

Sreedhar Radhakrishnan

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EDUCATION

CARNEGIE MELLON UNIVERSITY

MS IN INFORMATION NETWORKING
May 2021 (Expected) | Pittsburgh, PA
GPA: 3.93 / 4.0

PES UNIVERSITY

BTECH IN COMPUTER SCIENCE
May 2018 | Bangalore, India
GPA: 9.23 / 10.0

CMU COURSEWORK

MACHINE LEARNING COURSES

Intro. to Machine Learning
Applied Machine Learning
Machine Learning at Scale

SOFTWARE SYSTEMS COURSES

Distributed Systems
Software Engineering
Operating Systems

SKILLS

PROGRAMMING LANGUAGES

Java • Python • Go • JavaScript
C • PL/SQL • R

MACHINE LEARNING

Python • Tensorflow • Numpy • PySpark

WEB TECHNOLOGIES AND DATABASES

HTML • CSS • JavaScript • Vue.js • Flask •
MongoDB • MySQL

CLOUD COMPUTING AND BIG DATA

AWS Kinesis • AWS DynamoDB • AWS
CloudWatch • Apache Spark • Docker

AWARDS

CMU GRADUATE SCHOLARSHIP

Awarded partial tuition fee waiver by
Carnegie Mellon University, Information
Networking Institute.

PES UNDERGRADUATE SCHOLARSHIP

Awarded the Prof. CNR Rao Merit
Scholarship for Academic Excellence.

USC, VITERBI RESEARCH PROGRAM

A selective undergraduate research program
at the University of Southern California,
Viterbi School of Engineering.
I interned as a Deep Learning Research
Scholar and was supervised by Dr. C.-C. Jay
Kuo the USC, Media Communications Lab.

INDUSTRY EXPERIENCE

ADOBE INC. | SDE INTERN, EMERGING PRODUCTS GROUP

May 2020 – August 2020 | San Jose, CA

- Designed and developed a Natural Language Search System from scratch that recommends solutions to issues/blockers faced by engineers. (Tech Stack: Python, BERT, PySpark, MongoDB).
- The product was successfully deployed to production and presented at the Adobe Photoshop Developer Meetup.

GE | SOFTWARE DEVELOPMENT ENGINEER

August 2018 – June 2019 | Bangalore, India

- Applied Pub/Sub pattern and developed a Cloud-Native 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. (Tech Stack: Java, Go, AWS Kinesis, AWS DynamoDB)
- Implemented REST APIs using Go for retrieval of aircraft engine asset information from over 5 million records.

RESEARCH EXPERIENCE

UNIVERSITY OF SOUTHERN CALIFORNIA

RESEARCH SCHOLAR - DEEP LEARNING FOR COMPUTER VISION

June 2017 – July 2017 | Los Angeles, CA

- Conducted research in the area of Deep Learning for Computer Vision under Dr. C.-C. Jay Kuo at the USC, Media Communications Lab.
- 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. [IEEE Link](#).

PES UNIVERSITY

UNDERGRAD THESIS - MACHINE LEARNING AND COMPUTER VISION

January 2018 – May 2018 | Bangalore, India

- Worked as part of a team of 3 students under the supervision of Dr. Ramamoorthy Srinath in the area of Creative Intelligence.
- Developed a Conditional GAN driven web service that generates and renders multiple car design images from a sketch. [Springer Link](#).

ACADEMIC PROJECTS

- Implemented a RESTful Distributed File System from scratch supporting all common file system operations, data replication and custom reader-writer locks for synchronization.
- Engineered an Image Processing Pipeline to recommend apparels similar to those worn by actors in videos. [Blog Link](#)
- Implemented a Blockchain System using the Proof of Work protocol, Proof Authority Protocol and SHA-256 hashing algorithm to provide a scalable anonymous voting platform.
- Successfully engineered an Athlete Evaluation Formula in the sport of cricket and obtained a 19% improvement in accuracy from the baseline model as a predictor for game performance. [IEEE Link](#)