Lakshmi Gayathri Rangaraju

Graduate student at Clemson University

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Education _

Masters in Computer Science - 3.78/4

August 2022 - May 2024

Clemson University

Clemson, USA

Bachelor of Technology in Computer Science - 7.97/10

August 2017 - May 2021

Keshav Memorial Institute of Technology

Hyderabad, India

Course Work _

- Machine learning
- Deep learning with Computer vision
- Statistical Methods I
- Security in advance network technologies
- Data mining
- An introduction to Artificial Intelligence

Research Interests _____

- Machine learning
- Computer vision

Work Experience _____

Graduate Research Assistant

September 2022 - Present

Clemson University

Clemson, USA

- · Collaborated with Dr. Da Li, Assistant Professor in Civil Engineering department to enhance the user interaction of their existing website.
- The technologies involved in this project are Machine Learning, Dash, Python.

Software Development Engineer

August 2021 - July 2022

Amazon

Hyderabad, India

- Improved privacy compliance of a service, by developing well designed and tested code for back end.
- · Devised good quality test cases to check backward compatibility and the API workflow during an internal service framework migration.
- Raised the Operational Excellence bar of my team by identifying root causes for issues in our services and by taking future action items to reduce the recurrence of the same issue, and by reviewing peer's code.
- Improved developer productivity by implemented an automated notification system to ping service on-calls about paged messages. And strategically migrated off the legacy system.
- Contributed to Engineering Excellence by automating the process of copy pasting the configurations from one service environment to another, which improved developer productivity while creating new service environments.
- Technologies involved in these projects are Java, Spring, Dagger, AWS, Junit, Mockito, Git.

Software Development Intern

January 2021 - August 2021

Amazon

Hyderabad, India

- Reduced the manual effort of collecting basic information of issues from clients by automating the process through a new, efficient, and well-tested Model-View-Container (MVC) application.
- Technologies involved in this project are React, Java, Spring, Git, Junit, Mockito.

Reseach Intern January 2020 - May 2020

Genoparadigm

Hyderabad, India

- Helped radiologists in determining if the patient has breast cancer by constructed a deep learning model which detects the presence of lesions in mammogram images.
- Technologies involved in this project are Deep learning, Python, Numpy, Pandas.

Publications _

- [1] Subramanian Rajasekaran, **R. Lakshmi Gayathri**, Jain Priyal, Kanneganti, Sai Rohith. "Automatic Breast Cancer Lesion Detection and Classification in Mammograms Using Faster R-CNN Deep Learning Network, *issues and Developments in Medicine and Medical Research Vol. 6*, February 2022, Page 10-20. [Link]
- [2] Subramanian Rajasekaran, **R. Lakshmi Gayathri**, Jain Priyal, Kanneganti, Sai Rohith. "Breast Cancer Lesion Detection and Classification in Radiology Images using Deep Learning, *European Journal of Molecular and Clinical Medicine, 2020, Volume 7, Issue 3*, Pages 677-684. [Link]

Technical Skills

Programming Languages C, Cpp, Java, Python, HTML, CSS, Bootstrap, React, Dash

DatabaseMySQLVersion Control SystemGit

Backend/Testing Frameworks Spring, Dagger, JUnit, Mockito
Artificial Intelligence Frameworks/Libraries Scikit-learn, Numpy, Pandas, Pytorch

Cloud technologies Amazon Web Services - SQS, Lambda, SNS, EC2, CloudFormation

Projects ____

Timely

Developed a website using PHP and SQL database, which aims at decreasing the manual work of delivery centers by segregating the deliveries according to routes and availability slots of customers efficiently via the website.

March, 2018

Face Mask Detection

Worked on a deep learning model (YOLO) which detects face masks using tensorflow framework. This tool can be used to surveillance people in public places for ensuring safety during pandemin situations.

July 2020

Driver Drowsiness Monitoring System

Built a deep learning model (CNN + LSTM) which takes in the person video while the person is driving, and alarms when the driver feels drowsy. This alerting tool aids in reducing the accidents caused due to drowsiness of the drivers.

Quality Evaluation of Skull Stripped Brain MRI Images

Built a useful tool using deep learning technology(CNN) which reduces human intervention for evaluating the quality of skull stripped brain MRI images.

Certifications _

Online	Deep learning specialization by Coursera	May, 2020
Hyderabad	Certified in Business English (BEC) at Vantage level by Cambridge with Grade C.	September,
		2018
Hyderabad	NPTEL Online Certification in Google Cloud Computing Foundations with 75%.	November,
		2020
Hyderabad	NPTEL Online Certification in Block chain Architecture Design and Use Cases with 45%.	April, 2019

May 2021

May 2021