

# NIHITHA REDDY SEELAM

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## EDUCATION

### Auburn University, Auburn, AL

Aug 2022 - May 2024

Master of Science in Computer Science and Software Engineering

Cumulative GPA: 4/4

#### Relevant Coursework:

Advanced Computer Architecture, Database Systems, Machine Learning, Advanced Topics in Algorithms, Advanced Topics in Operating Systems, Data Mining, Software Quality Assurance, User Design and Interface, Intermediate Statistical Methods for Data Science and Cloud Computing.

### Koneru Lakshmaiah Education Foundation, Guntur, India

Jun 2016 - Jun 2020

Bachelor of Technology in Computer Science and Engineering

Cumulative GPA: 9.16/10

**Relevant Coursework:** C Programming and Data Structures, Operating Systems, Platform Based Development, Artificial Intelligence, Cloud Computing, Computer Networks, Algorithm Design and Analysis, Language and Compilers.

## TECHNICAL SKILLS

**Programming Languages** Android, Java, Python, SQL, C, DBMS, HTML, CSS, JavaScript.

**Tools and Technologies:** MySQL, Visual Studio Code, Jupyter, Git, SVN

**Operating Systems:** Windows, MAC OS, Linux.

## WORK EXPERIENCE

### RFID Lab – Auburn University, Auburn, AL

Apr 2023 – present

Graduate Assistant

- Conducted comprehensive data collection and analysis for large-scale RFID deployments. Evaluated performance in controlled lab settings, utilizing RF test equipment to troubleshoot and maintain systems.
- Showcased strong attention to detail and quality control through meticulous data analysis and presentation. Produced insightful reports for effective data communication with customers, contributing to informed decision-making.
- Proven ability to excel both independently and collaboratively in time-sensitive projects. Collaborated effectively within teams, leveraging excellent communication skills to enhance problem-solving and analytical capabilities.

### Hyundai Mobis, Hyderabad, India

Sep 2020 – Jun 2022

Research Engineer

- Developed various advanced features for USB Music/Video streaming and UI in vehicle infotainment systems.
- Responsible for Android application development using Java Programming language. Diagnosed problems with software and implemented efficient solutions and coordinated with frequent production releases.
- Collaborated and built scalable, high performance and well-tested features for head units. Maintained software code repository that includes APIs for critical systems.

## PROJECTS

### Deep Residual Learning for Image Recognition

Mar 2023 – Apr 2023

- Developed a program to recognize images by training our model in Residual Networks.
- Using CIFAR-10 dataset we trained our model in deep residual network which helps in handling complex deep neural networks for image recognition.
- Using residual networks, we could notice how effective and congenial it is to use rather traditional convolution neural networks.

### Music Genre Classification using Multi-Layer Perceptron

Oct 2022 – Nov 2022

- Developed a model that can accurately detect a song's genre it belongs to. The GTZAN dataset was used to train various categorization models that were constructed.
- Compared the performance of three classes of models namely Support Vector Machine (SVM) classifier, Random Forest (RF) classifier and two-layered and three-layered Multi-Layered Perceptron (MLP) built from scratch.
- Trained the machine learning classifiers for datasets of different durations and compared their performance.

### Online Bookstore Management System

Oct 2022 – Nov 2022

- Developed a database using MySQL for an online bookstore system. The system maintains information about books, subjects, suppliers, and shippers.
- Created a database, added tables and populated the database to the system. Additionally implemented PHP and HTML interfaces where the user can interact with the database by entering SQL query in the form.

### Riddance of Redundant Information and Providing Integrity in Cloud Networking

Apr 2020 – May 2020

- Designed a cloud-based system, to reduce the cloud storage space using the technique of Deduplication of encrypted data.
- Worked on Encryption Algorithms (ECDSA) and focused on providing improved performance and security.
- Paper published in the Journal of Xidian University, 2020.

## AWARDS

### Best Employee Award – Hyundai Mobis, Hyderabad, India

- Received Best Employee award for developing innovative android applications for infotainment systems. Active contribution by providing efficient solutions for optimization of software.