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 (OOP), Python, SQL, C, R, DBMS, HTML, CSS, JavaScript, Bootstrap, JQuery.
Tools and Technologies: MySQL, Visual Studio Code, Jupyter, Git, JIRA.
Operating Systems: Windows, MAC OS, Linux, Unix.

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 and solved software problems, coordinating 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

Beauty and Joy of Computing: An E-learning Website   **Oct 2023 – Nov 2023**

- Led the creation of an innovative e-learning platform for Beauty and Joy of Computing, emphasizing web application development, featuring comprehensive lessons on programming languages and the 7 big ideas of computing.
- Utilized HTML, CSS, and JavaScript to develop a user-friendly interface, ensuring a seamless and engaging learning experience.
- Emphasized simplicity and optimization to enable users to effortlessly access information, fostering a gratifying and entertaining educational environment.

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.

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.