

AISHWARYA ESHWAR

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EDUCATION

Master of Science: Computer Science, University at Buffalo, The State University of New York, December 2025 | GPA – 3.2

Relevant Coursework: Deep Learning, Machine Learning, Operating Systems, Algorithms, Data Models and Query Languages, Computer Vision, Data Intensive Computing

Bachelor of Engineering: Computer Science & Engineering, Dayananda Sagar Academy of Technology, India, May 2024 | GPA – 3.6

Relevant Coursework: Data Structures, Design and Analysis of Algorithms, Database Management Systems, Operating Systems, Object Oriented Concepts, Application Development using Python, AIML, UI Design, IOT, NoSQL Database

SKILLS & TOOLS

Programming Languages: Java, Python, C++, C#

Data Management & Analytics: SQL, MySQL, PostgreSQL

Frontend Development: HTML5, CSS3, JavaScript, Node.js, React, Angular

Backend Development: Spring Boot, Flask

Cloud and DevOps: AWS, Docker, Kubernetes

Operating Systems & Development Tools: Windows, Linux, Google Colab, Jupyter Notebook, Visual Studio, Android Studio

Core Skills: Data Structure and Algorithms, Machine Learning, Deep Learning, Object-Oriented Programming, Agile Methodology, Software Development Lifecycle, Git

Machine Learning Frameworks & Framework: PyTorch, TensorFlow, Keras, Scikit-Learn, NumPy, Pandas, Apache Spark

COMPUTER SCIENCE PROJECTS

A three-layer authentication: HTML, CSS, Python, OpenCV, Flask

- Designed a robust three-layer authentication system to enhance security against unauthorized access, utilizing a combination of facial recognition, iris detection and OTP-based verification methods to prevent shoulder surfing and thermal attacks.
- Implemented the project using Python and Flask, integrating OpenCV for biometric analysis.

Breast cancer detection: Python, Jupyter, Flask

- Developed a CNN-based model to classify benign and malignant breast tumors using mammogram images.
- Improved the detection system's efficiency by fine-tuning data pre-processing, feature extraction, and model parameters.

Chatbot: Java, Android Studio

- Designed and implemented an intelligent chatbot using natural language processing (NLP) techniques to enhance user engagement and support.
- Integrated machine learning algorithms to improve response accuracy and adapt to user interactions overtime

Proctor Diary: MySQL, Python, Visual Studio, HTML, CSS, JavaScript

- Built a Proctor Diary Database Management System to manage proctor schedules and attendance in educational institutions, utilizing Python and Flask for the backend with a MySQL database for data integrity and efficiency.

WORK EXPERIENCE

Software Engineering Intern, Compsoft Technologies, Bengaluru, India: June 2023 – December 2023

- Built and optimized interactive web applications using HTML, CSS, and JavaScript, ensuring responsive and user-friendly designs.
- Assisted in developing Java-based backend services, handling API requests and database interactions.
- Integrated RESTful APIs to connect front-end components with backend functionality.
- Worked on real-time data updates and dynamic content rendering, improving application performance.
- Worked on AWS cloud deployment and containerized applications using Docker & Kubernetes.
- Developed Python scripts for automating repetitive tasks and optimizing workflows.
- Collaborated with designers and developers to implement best practices in web development.

AWARDS

- Received the **Best Paper Award** for the paper titled "A Three-Layer Authentication" at the IEEE conducted International Conference on Data Engineering and Computer Science (ICDECS).
- Awarded **Best Project** for the "Three-Layer Authentication" project at an event organized by DSATM.
- Membership Lead**, IEEE Student, Dayananda Sagar Academy of Technology and Management, June 2023 - April 2024