# Alpana Robby

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LinkedIn | GitHub

## OBJECTIVE

To secure an internship to apply my academic knowledge, enhance my practical skills, and contribute to research.

## INTERESTS

Artificial Intelligence and Machine Learning, Deep Learning, Image Processing, Computer Vision, Big Data Analytics

## EDUCATION

**SRMIST - Kattankulathur** **2023 - 2027**
**BTech- Computer Science & Engineering** (specialization in Big Data Analytics)

- CGPA: 9.32 (after 3rd semester)
- Secretary in IEEE student branch of SRM, in the Research & Development domain
- Courses: Artificial Intelligence, Digital Image Processing, Fundamentals of Data Science, Calculus and Linear Algebra, Probability and Statistics, Advanced Object Oriented Programming, Programming and Problem Solving

**Gitanjali Senior School- Hyderabad** **2021 - 2023**
**12th, PCM**
Board Percentage: 89%
School topper in Computer Science

**Niraj Public School - Hyderabad** **2008 - 2021**
**10th, PCM**
Board Percentage: 90.2%

## SKILLS

**Languages:** Java, C++, C, Python, MATLAB, SQL
**Libraries:** NumPy, Pandas, Matplotlib
**Tools:** Jupyter, Git/GitHub, VS Code
**Web Design:** UI/UX (Figma)
**Graphic Design:** AutoCAD
**Soft Skills:** Research, Collaboration, Ethical Awareness, Adaptability to Interdisciplinary Knowledge, Critical Thinking

## EXPERIENCE

**Machine Learning Intern at Codsoft** **Aug 2024 - Sept 2024**

- Developed and optimized machine learning models tailored to specific task requirements, ensuring accuracy and efficiency.
- Implemented algorithms for detection and classification, addressing real-time challenges in domains such as Cybersecurity & Natural Language Processing (NLP), Financial Technology (FinTech), Media & Entertainment Analytics
- Preprocessed and analyzed large datasets to extract meaningful patterns, improving model performance.

## PUBLICATIONS

Second Author for Research Paper on “Real-Time Autism Spectrum Disorder Detection via Wearable Sensor Integration and NLP Analysis.” Submitted for publication to International Conference on Sustainable Development Goals, 2025.

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## PROJECTS

- **Attendance Management System Using Facial Recognition -** Developing an automated attendance system using facial recognition to enhance accuracy and efficiency in attendance tracking. Integrated deep learning-based facial recognition with a secure database for real-time attendance logging. Designed a user-friendly interface for administrators, enabling seamless employee and student attendance management while reducing manual errors and unauthorized entries. (Ongoing)

- **Smile Detection using OpenCV -** Developed a real-time smile detection system using OpenCV and Haar cascades. The model detects faces and classifies smiles through live webcam input, optimizing parameters for improved accuracy. Implemented efficient image processing techniques to enhance detection performance.

- **Ship Survival Prediction Model -** Built a machine learning model to predict ship and individual survival probabilities in maritime disasters. Used Python (Pandas, Scikit-learn) for data preprocessing, feature engineering, and classification with Random Forest. Analyzed factors like iceberg impact, water temperature, and passenger demographics to enhance maritime safety and risk assessment.

- **WorkForcePro - HR tool for managing employees.** Developed using Java (Swing & AWT) for the front-end and MySQL for the database. A system to track the details of an employee for efficient HR operations ensuring smooth workflow. Allows you to manage all employee information in a centralized database where you can check, update and view employee details, and can delete in case employee leaves the company.

- **BookHive- Digital tool for librarians.** Developed using Python (tkinter) for the front-end and MySQL for the database. The system enables book management, user registration, book issuing, and return tracking while automating calculation of fines. Designed to enhance efficiency by reducing manual work for librarians and improving user experience with a digital library approach.

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## EXTRA - CURRICULAR

**Secretary of R&D domain - IEEE Student Branch, SRMIST** **May 2024 - Present**

- Coordinated research initiatives by facilitating collaborations, technical discussions, and project development within the R&D domain.
- Organizing R&D-focused events to drive innovation.
- Recruiting student members for IEEE Student Branch, SRMIST R&D domain

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## CERTIFICATIONS

- Artificial Intelligence: Knowledge Representation And Reasoning, NPTEL IIT Madras — Ongoing
- Introduction to Database Systems, NPTEL IIT Madras — Ongoing
- MATLAB Onramp, MathWorks — Feb 2025
- Image Processing Onramp, Mathworks — Feb 2025
- Programming in Java, NPTEL IITKGP — Nov 2024
- Object Oriented Programming in C++, University of London (Coursera) — Mar 2024
- Programming in Python, Meta (Coursera) — Nov 2023

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