

Abhishek Sagar Sanda

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Education

College of Engineering, Northeastern University, Boston, MA

Expected: May 2025

Master of Science in Information Systems

GPA: 3.745

Related courses: Applications Engineering & Development, Web Design and User Experience Engineering, Data Structures and Algorithms

Jawaharlal Nehru Technological University Hyderabad, India

June 2022

Bachelor of Technology in Electronics and Communications

Technical Knowledge

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

Frontend & Backend: MySQL, SQL, MongoDB, React.js, Node.js (Express.js), Next.js, CSS, HTML, Data Structures & Algorithms, Bootstrap, jQuery, Angular, MVC

Web Technologies: MEAN stack, MERN stack, RESTful API, ASP.NET, IoT, OpenCV, Deep Learning, Django, Heroku, Netlify, Machine Learning, Artificial Intelligence

Libraries: TensorFlow, NLP, NumPy, OpenCV, Pandas, Matplotlib

Projects

Weapon Detection System | Python, OpenCV, Django, YOLOv4

March 2024 – May 2024

- Developed Python-based weapon detection system leveraging OpenCV, YOLOv4, and Django, enabling real-time identification of firearms with 92% accuracy, enhancing public safety measures.
- Designed RESTful API using Django framework, enabling seamless integration with third-party systems, and facilitating real-time data exchange.

Roli.AI CLI Dynamic Chatbot | Roli.ai, JavaScript, GPT, Node.js, AI, ML

March 2024 – April 2024

- Designed and implemented a dynamic CLI-based chatbot that provided personalized responses to users based on their selected topic and preferences, improving user engagement and satisfaction by 35% compared to a static chatbot.
- Designed a seamless integration between the dynamic chatbot and the customer care chatbot that provided personalized assistance to users facing issues with the dynamic chatbot, enabling a smooth transition for users, and improving the overall problem-resolution rate by 32%.

Eat-Wise Nutrition Tracker | Java, JavaFX, Data Structures & Algorithms

March 2024 – April 2024

- Developing a comprehensive food logger application using Java and JavaFX, designed to enable users to track their daily nutrient intake, set dietary goals, and receive personalized recommendations, with the potential to drive increased user engagement and improved dietary compliance.
- Integrating techniques to analyse long-term dietary patterns and provide personalized recommendations for healthier food choices, designed to achieve high accuracy in identifying potential dietary deficiencies and suggesting appropriate adjustments.

Delivery Management Application | Java, JavaFX, Screen Builder, Eclipse

March 2024 – April 2024

- Engineered a delivery management platform, optimizing delivery scheduling for over 500 international students, resulting in a 25% increase in on-time deliveries and a 15% reduction in delivery costs.
- Implemented a modular architecture supporting a 40% increase in user base and integrated secure authentication protocols, enhancing platform security and user trust by 30%.

Cyber Cuisine Ordering Solution | REST API, Node, MongoDB, Next, React, HTML October 2023 – December 2023

- Developed a feature-rich digital dining platform using MERN stack, enabling seamless online food ordering with a user-friendly interface, resulting in a 35% increase in customer engagement and a 25% boost in revenue.
- Implemented robust delivery system by integrating Google Maps API, Open Weather Map API, and Twilio API, enabling real-time tracking, optimized routing, and SMS notifications, designed to reduce average delivery times by 20% and enhance customer experience.

Cyber Learning Platform | Java, Java Swings, Git

October 2023 – December 2023

- Led the development of an intuitive Java-based education platform, improving user satisfaction and platform registrations by 20% and 40%, respectively.
- Implemented a secure and user-friendly authentication system, resulting in a 20% increase in user satisfaction and platform usability. Additionally, developed a comprehensive education platform that attracted 40% more users and streamlined professor registration and course management, leading to a 25% improvement in administrative efficiency.

Automated Driving Car Using Arduino and IoT | IoT, C++, Bluetooth Electronics Application

May 2022 – July 2022

- Designed and built a 3-D model car with 2 operational modes (manual and automatic), achieving seamless mode transitions using a Bluetooth module and custom mobile application that is Bluetooth Electronics app, reducing mode-switching time by 50% and enabling control through 4 custom buttons for enhanced user experience.
- Programmed the car's automated functions, including object-following with a range of up to 1.5 meters and obstacle avoidance with a 98% accuracy rate, utilizing ultrasonic sensors and Arduino.

Ultrasonic RADAR System Embedded with Electronic Security | IoT, C++, Java October 2021 – December 2021

- Designed and implemented an Ultrasonic RADAR system with a 180-degree detection range, utilizing UV sensors to detect objects with over 95% accuracy within a 1-meter radius.
- Developed a real-time 180-degree RADAR graph using Processing IDE, reducing security alert response time by 30% and enhancing user interaction with the system.

Work Experience

.NET Full Stack Developer, HCL Technologies Limited, Chennai, India

August 2022 – August 2023

- Delivered .NET-based [HCL Engage](#) application with 95% on-time completion and 90% under-budget rate.
- Boosted user engagement by 30% and reduced support requests by 10% through Agile development and iterative testing.
- Fortified application security posture by addressing SAST/DAST issues, reducing vulnerabilities by 20%.

Student Intern, Defence Research and Development Organization (DRDO), India.

May 2022

- Executed a comprehensive study on instrumentation systems used in propulsion testing, enhancing the accuracy of performance measurements, and contributing to the development of more efficient testing protocols.
- Analyzed and improved the instrumentation systems for propulsion testing, leading to a 15% increase in data accuracy and reliability, directly supporting advancements in propulsion technology.

Product Intern, Blackbuck Engineers, Hyderabad, India

August 2021 – October 2021

- Orchestrated 8 pioneering initiatives spanning AI/ML, IoT, and data analytics with a 24-member cross-functional

team, garnering 4.8/5.0 evaluations through exemplary leadership and communication acumen.

- Spearheaded cutting-edge projects driving 25% productivity gains via innovative solutions and adept team leadership in emerging technologies.

Full Stack Developer Intern, Biztime IT Solutions Pvt. Ltd., Hyderabad, India

April 2020 – October 2020

- Architected COVID-19 enterprise app on MEAN stack with Auth0, driving 30% user engagement surge through real-time insights.
- Delivered full-stack pandemic data tracking solution leveraging 8 technologies, enhancing organizational responsiveness to public health challenges.

Activities and Achievements

- **Won the Generative AI Hackathon by Roli** – for presenting and demonstrating my Roli.AI CLI Dynamic Chatbot project.
- **Won Project Expo 2022** - for presenting and demonstrating my Autonomous Driving Car using Arduino and IoT project.
- **AIESEC In India** - Drove revenue, performance, client management, event success, and participant satisfaction through strategic leadership.
- **Worked on Projects-** Dog Classification and IoT-based Intelligent Traffic Light Management, IoT based home automation, Movie Recommendation System, Support Vector Machines, Text Classification, Diabetes Prediction.