

# Deeyan Vadwala

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## EDUCATION

<b>Northeastern University</b> <i>Master of Science in Computer Science</i>	Boston, MA <i>Sep 2025 – Dec 2027</i>
<b>Coursework:</b> Programming Design Paradigm, Database Management Systems, Foundations of Artificial Intelligence, Algorithms	
<b>Indus University</b> <i>Bachelor of Technology in Computer Science and Engineering</i>	Ahmedabad, India <i>Oct 2021 – May 2025</i>
<b>Coursework:</b> Programming For Problem Solving, Object Oriented Programming, Database Management Systems, Data Structures and Algorithms, Software Engineering	

## TECHNICAL SKILLS

<b>Languages:</b> Python, Java, C, C++, SQL, Dart, HTML, CSS
<b>Frameworks &amp; Libraries:</b> Flask, JUnit, Flutter, Pandas, NumPy, LangChain, Scapy, Bootstrap, REST APIs
<b>Databases:</b> MySQL, PostgreSQL, MongoDB, NoSQL
<b>Cloud &amp; DevOps:</b> AWS (EC2, S3, RDS, Lambda, IAM), Docker, Jenkins
<b>Developer Tools:</b> Git, Postman, Jira, VS Code, IntelliJ, PyCharm, Eclipse, Visual Studio, Android Studio, Linux

## EXPERIENCE

<b>Software Engineer Intern</b> <i>Prodigy InfoTech</i>	June 2024 – July 2024 India
<ul style="list-style-type: none"><li>Implemented data protection mechanisms using cryptography and image encryption via pixel-level RGB transformations, efficiently processing 100K+ pixels and characters per execution.</li><li>Designed network packet analyzer using Scapy to capture and analyze 1K+ live IP packets per session, extracting source/destination, protocol, and payload data to support network security monitoring and threat detection.</li><li>Automated validation and sanitization of network traffic logs, reducing manual verification effort by 28%.</li><li>Optimized encryption and packet processing routines for performance and memory usage, improving runtime efficiency by 18%.</li><li>Documented system architecture and workflow, enabling smooth knowledge transfer and onboarding for future interns or team members.</li></ul>	

## PROJECTS

<b>Phoenix – AI Voice Assistant</b>   <i>Python, Flask, Speech Recognition, LangChain, LLaMA 3</i>	GitHub
<ul style="list-style-type: none"><li>Engineered a modular voice-controlled assistant capable of executing system and web automation tasks.</li><li>Integrated LangChain with LLaMA 3 for intelligent Q&amp;A and dynamic conversation flow.</li><li>Architected Flask-based microservices ensuring extensibility and low-latency API responses.</li></ul>	
<b>Virtual Closet App – AI-Powered Outfit Planner</b>   <i>Flutter, Firebase, Flask, OpenWeatherMap API</i>	GitHub
<ul style="list-style-type: none"><li>Developed a cross-platform Flutter application integrated with Firebase for real-time data storage.</li><li>Built Flask backend with RESTful APIs for AI-driven outfit classification and user authentication.</li><li>Integrated weather-based styling and event scheduling, enhancing personalization and UX.</li></ul>	
<b>AgroRishi – Smart Farming Assistant</b>   <i>Flask, ML, IoT, LLaMA 3, Bluetooth</i>	GitHub
<ul style="list-style-type: none"><li>Developed IoT-based farming assistant for monitoring soil and weather data in real time.</li><li>Implemented ML models for crop health and disease prediction, improving yield forecasting accuracy.</li><li>Integrated LLaMA 3 chatbot for multilingual agricultural support using Flask microservices.</li></ul>	

## CERTIFICATIONS

<b>AWS Academy Graduate – Cloud Foundations</b>
<b>AWS Academy Graduate – Machine Learning Foundations</b>