# Pooja Reddy Arava

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## EDUCATION

**MS Computer Science, Cleveland State University** Aug 2023 – May 2025 | Cleveland, USA
*GPA : 3.62*

**BTech Computer Science, JNTU Anantapur** Aug 2018 – Jul 2022 | India
CGPA : 7.99

## TECHNICAL SKILLS

**LANGUAGES :**
C, C++, Java, Python, JavaScript, HTML, JSON, XML.

**TOOLS :**
Mulesoft, Anypoint Platform, Azure DevOps, Mule ESB, Mulesoft Cloudhub, AWS, Jupyter, Git, MS Office,Docker, GitLab, Jenkins,Selenium, Postman, Tableau, Power BI

**WEB TECHNOLOGIES :**
React, Bootstrap, TypeScript, SCSS, XML, HTML, MYSQL,Django, REST APIs,

## PROFESSIONAL EXPERIENCE

**Cleveland State University, Teaching Assistant** Feb 2024 – present | Cleveland, USA
- Assisting in CIS 636 - Software Quality Assurance and CIS 530 - Database & Processing.
- Supported learning in CIS 340 - System Programming, CIS 534 - Software Engineering, and CIS 524 - Comparative Programming Languages.
- Conducted database-related lab sessions, guided students on SQL queries, indexing, and optimization techniques.

**Accenture Solutions Private Limited, Application Development Associate** Oct 2022 – Jun 2023 | Banglore, INDIA
- Designed and implemented enterprise-level API integration projects using Mulesoft, improving data flow efficiency by 40%.
- Developed reusable REST APIs and connectors using RAML & Anypoint Studio, reducing API response time by 25%.
- Implemented CI/CD pipelines for automated testing and deployment, enhancing delivery speed and code quality.
- Applied secure coding practices and OAuth authentication frameworks to ensure API security.
- Conducted performance analysis and optimization of APIs in high-transaction environments.
- Collaborated with cross-functional teams to translate business requirements into technical specifications.
- Created comprehensive API documentation using Swagger/OpenAPI for 5+ API integrations.
- Performed unit and integration testing to ensure reliable API functionality and resilient error handling.

## PROJECTS

**Course project proposal on Prediction of Cardiovascular Disease Risk** Aug 2024 – Dec 2024
- Developed a REST API service exposing predictive models (Logistic Regression, Decision Trees, Random Forest)
- Implemented secure authentication and rate limiting for API access
- Created extensive API documentation and testing suites to ensure reliability
- Deployed the solution using containerization for scalability and performance

**Travel Management System - Software Testing** Jan 2024 – May 2024
- Designed RESTful APIs and service layers for a travel booking application using modern architecture patterns
- Implemented automated API test suites using Selenium and Postman, achieving 95% test coverage
- Created API documentation with Swagger/OpenAPI to enhance developer experience and integration
- Applied performance optimization techniques, reducing API response latency by 30%

**Determining an Optimum Machine Learning Architecture for Human-Activity Recognition** Jan 2022 – Jun 2022
- Built and optimized machine learning models (KNN, SVM, RFC, ANN, LSTM) for sensor data processing.
- Implemented efficient data pipelines for processing and transforming high-volume streaming sensor data.
- Applied feature engineering techniques to improve model accuracy by 15%.
- Deployed models as lightweight REST API services for real-time activity prediction.

## LEADERSHIP & SOFT SKILLS

- Expertise in developing high-performance APIs and software services for large-scale applications.
- Strong analytical mindset with a track record of translating complex data into actionable insights.
- Adept at collaborating with cross-functional teams, aligning technical and business objectives.

## CERTIFICATES

**Machine Learning** — Attended an advanced Machine Learning Workshop at IIT Tirupati to gain insights into ML concepts using Python.

**Ethical Hacking** — Completed a Cyber Security and Ethical Hacking Workshop, covering penetration testing and security assessment techniques.