

# Jagadeesh Kumar Nadella

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## Education

**Velapapudi Ramakrishna Siddhartha Engineering College**

*Bachelor of Technology in Computer Science (CGPA: 8.63 / 10.00)*

April 2025

Vijayawada, Andhra Pradesh

## Technical Skills

**Languages:** Java, Python, SQL, R

**Web Technologies:** HTML, CSS, JavaScript, Flask, Node.js, RESTful APIs

**Database Management:** MySQL, PostgreSQL, MongoDB

**Cloud & DevOps Tools:** AWS, Docker

**Data Analysis & Visualization:** Tableau, Power BI, Data Analysis, Machine Learning

**Version Control & Collaboration:** Git, GitHub, VS Code

## Projects

### Diabetic Retinopathy Detection and Severity Classification using ResNet and Graph Neural Networks

- Developed an end-to-end healthcare web application for ophthalmologists to detect Diabetic Retinopathy, classify its severity (0–4), and manage patient records.
- Designed a hybrid deep learning model combining ResNet50 feature extraction (2048-D embedding with a Graph Neural Network, achieving 96% test accuracy and outperforming CNN baseline.
- Built a Patient Management Portal with secure login, role-based access, patient registration, medical history storage, and longitudinal tracking of retinal scans across visits.

### Smart Inventory Management System By Dynamic Discount Pricing

- Engineered predictive models using Random Forest and XGBoost for demand forecasting and calculating optimal discount prices based on shelf life, demand, and stock level.
- Built a full-stack web application using Flask, HTML, and CSS, which allows users to upload datasets, classify items, and receive actionable pricing recommendations to streamline inventory control.

## Virtual Work Experience

### Software Developer

*Forage - Hewlett Packard Enterprise*

*Virtual Internship*

- Wrote a proposal for a RESTful web service to manage a list of employees.
- Built a web server application in Java Spring Boot that can accept and respond to HTTP requests as well as support uploading JSON data.
- Developed and ran a set of unit tests to assess my Java Spring Boot application's performance.

### Software Developer

*Forage - JP Morgan Chase*

*Virtual Internship*

- Developed a Kafka listener in Spring Boot to consume and deserialize transactions from a configurable topic.
- Integrated H2 database with Midas Core to validate and record Kafka transactions, ensuring valid sender, recipient, and sufficient balance before updating records.

## CERTIFICATIONS

Programming in Java - NPTEL [🔗](#)

HTML and CSS Fundamentals - EDX [🔗](#)

Data Analytics Essentials - Cisco Networking Academy [🔗](#)

Introduction to Web Development with HTML, CSS, and JavaScript - EDX [🔗](#)

## Coding Profiles

**LeetCode** — Problem Solving, solved 550+ questions

**GeeksforGeeks** — DS & Algorithms Practice, solved 500+ problems

**CodeChef** — Competitive Programming

**HackerRank** — Problem Solving & Python Practice