

Jagadeesh Kumar Nadella

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Education

Velagapudi 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