

# BALAJI AKULA

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## SUMMARY

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I am looking for an entry-level position to begin my career. I am open to various opportunities that can help me gain experience and perspective. I want to work in a dynamic organization that supports my personal and professional growth. As a highly motivated and hardworking individual, I am seeking a responsible role in a reputable organization.

## EDUCATION

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### B.Tech in Electronics and Communication Engineering

*Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology*

**2021 – 2025**

*CGPA - 7.9*

### Board of Intermediate Education

*Sri Gayatri Junior College*

**2019 – 2021**

*CGPA - 7.4*

### Board of Secondary Education

*Zilla Parishad High School*

**2018 – 2019**

*CGPA - 8.2*

## SKILLS

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**Languages:** Python (NumPy, Pandas, Matplotlib, OOP, File Handling, Exception Handling, Automation Basics)

SQL (Basic Queries)

Web Technologies: HTML, CSS, Bootstrap, React (basic familiarity)

### IDEs & Tools:

Visual Studio Code, IDLE, Jupyter Notebook

Version Control: Git (Basic)

### Finance & Modeling Skills:

Financial Modeling Basics (self-taught / academic)

Cash Flow Simulation & Scenario Analysis using Python

Data Cleaning & Manipulation (Pandas)

Model Validation & Accuracy Checks (conceptual understanding)

### Soft Skills:

Communication

Problem Solving

Teamwork

Adaptability & Quick Learning

## **PROJECTS**

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### **Cash Flow Simulation using Python**

- Built a Python-based model to simulate periodic cash flows based on defined assumptions.
- Used Pandas and NumPy to calculate interest, principal repayment, and remaining balances.
- Performed scenario analysis by modifying interest rates and payment assumptions.
- Tools: Python, Pandas, NumPy, Matplotlib

### **Heart Disease Detection using Machine Learning**

- Investigated the effectiveness of the K-Nearest Neighbors (KNN) algorithm in classifying patients based on the presence or absence of heart disease.
- Technologies Used: Computer Simulation Technology (CST)

### **Machine Learning-Based Anomaly Detection in Network Traffic**

- Developed a lightweight anomaly detection framework optimized for IoT environments with limited computational resources.
- Analyzed compressed representations of network traffic derived from the NSL-KDD dataset.
- Technologies Used: Computer Simulation Technology (CST)

## **CERTIFICATIONS**

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- MathWorks Online Course Completion Certificate – June 2023
- Basics of Python Certification – Infosys, March 2024
- Introduction to Data Science Certificate – Cisco, March 2024
- Python Full Stack Web Development Certification – Besant Technologies, Dec 2025

## **ACHIEVEMENTS**

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- Successfully led two projects as a team leader, demonstrating leadership and project management skills.