BALAJI AKULA

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SUMMARY

Entry-level Engineering graduate with a strong foundation in Python, SQL, Web Technologies, and Flask framework. Hands-on experience in developing web applications and working with data using NumPy and Pandas. Possess strong problem-solving, communication, and teamwork skills, with the ability to quickly learn new technologies and contribute effectively to cross-functional teams. Eager to upskill in emerging technologies and willing to work across different locations as per organizational requirements.

EDUCATION

BTech in Electronics and Communication Engineering 2021 - 2025
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology CGPA: 7.9

Board of Intermediate Education 2019 - 2021
Sri Gayatri Junior College CGPA: 7.4

Board of Secondary Education 2018 - 2019
Zilla Parishad High School CGPA: 8.2

TECHNICAL SKILLS

Programming: Python (OOP, File Handling, Exception Handling, NumPy, Pandas, Flask)

Web Technologies: HTML, CSS, Bootstrap, Javascript, React (Basic)

Database: SQL (Basic Queries)

Version Control: Git (Basic)

Tools: VS Code, Jupyter Notebook, IDLE, Git, GitHub

SOFT SKILLS

- Communication Skills
- Team Collaboration
- Problem Solving and Analytical Thinking
- Adaptability and Quick Learning

PROJECTS

Heart Disease Detection using Machine Learning

- Developed a prediction model using K-Nearest Neighbours (KNN) algorithm.
- Performed data preprocessing, feature engineering, and model evaluation.
- Achieved 87% accuracy on UCI Heart Disease dataset.
- **Tech Stack:** Python, NumPy, Pandas.

Machine Learning-Based Anomaly Detection in Network Traffic

- Built a Machine Learning-based intrusion detection system using the NSL-KDD dataset.
- Conducted data cleaning, preprocessing, and feature engineering on network traffic data.
- Achieved improved detection accuracy by reducing false positives through model optimization.

- Demonstrated practical application of ML techniques in cybersecurity domain.
- **Tech Stack:** Python, NumPy, Pandas, Scikit-learn

Student Management System - Web Application

- Developed a Flask-based web application with secure user authentication and full CRUD functionality.
- Integrated SQLite database with search and CSV export features.
- Deployed the application on Render with GitHub auto-deployment.
- Technologies: Python, Flask, SQLite, HTML, CSS, GitHub, Render.

  Live Demo: student-management- ask-x15g.onrender.com

  GitHub: github.com/royalbalaji319-cloud/student-management- ask

URL Safety Checker

- Built a web-based URL classification system using Python and Flask.
- Classified URLs as SAFE, UNSAFE, or INVALID using rule-based validation.
- Deployed application on Render with live demo.
- Tech Stack: Python, Flask, HTML, CSS, SQLite.

  Live Demo: url-saftey-checker.onrender.com

  GitHub: github.com/royalbalaji319-cloud/url-saftey-checker

CERTIFICATIONS

- Python Full Stack Web Development Certification – **Besant Technologies**
- Basics of Python – **Infosys** (March 2024)
- Introduction to Data Science – **Cisco** (March 2024)
- MATLAB/Simulink Online Course Completion – **MathWorks** (June 2023)

ACHIEVEMENTS

- Successfully led two projects as a team leader, demonstrating leadership and project management skills.
- Developed and deployed a full-stack web application independently, handling both frontend and backend development. • Completed multiple hands-on projects in SQL, Python, and Web.
- Development, strengthening problem-solving and debugging skills.