

Vedala Anirudh

Engineering Student | Aspiring Backend and Data Science Engineer

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Skills

Languages: Python, Java

Frameworks and Libraries: Spring Boot (Basics), Flask, PyTorch, Scikit-learn, Pandas, Seaborn, ctypes

Databases: Sqlite, MariaDB, MongoDB Atlas, Firestore (Firebase)

Tools & Platforms: Git/GitHub/GitLab, Docker, AWS EC2, VS Code, Google Colaboratory

Concepts: Machine Learning, Deep Learning, Computer Vision, Data Science & Analytics, REST API Development, Cryptography, Software Project Management.

Education

Dr Lankapalli Bullayya College of Engineering – Visakhapatnam, AP

Sept 2022 – May 2026

Course: B Tech in Computer Science Engineering | CGPA: 8.18/10

Projects

ATS Score Flask, Ollama, PyPDF2, python-docx, HTML/CSS

[Github Repo]

- Implemented an offline AI system by meticulously configuring the gemma3n:e2b Ollama model via a Modelfile.
- Secure Backend workflow built with Flask, PyPDF2 and python-docx to parse PDF/DOCX resumes.
- Minimal UI build with HTML/CSS and Flask's Jinja2 templating, achieving 70% less overhead (not choosing JS framework) along with traditional server-side form submission exposing no API endpoints.

URL Shortener Spring boot, Flask, MySQL, Docker, Railway

[Github Repo]

- A real-time data, full-stack responsive URL shortener built using Spring Boot and Flask microservice backend with persistent MySQL database.
- Implemented a secure URL encoding algorithm using UUID and Base62 conversion that reduces the URL length by 80% while ensuring secure and non-sequential keys along with secure API design.
- Containerized microservices architecture with Docker and deployed on railway (currently offline).

Intrusion Detection System Python, Pandas, Sklearn, Seaborn, Flask, Render

[Github Repo]

- Built an Intrusion Detection System (IDS) using binary classifiers (97% accuracy)
- Deployed Flask-based inference backend on Render for real-time attack classification, [link].

Co-curricular

Walmart Advanced Software Engineering Virtual Experience Program

- Developed a novel version of a heap data structure in Java for Walmart's shipping department, showcasing strong problem-solving and algorithmic skills.
- Designed a UML class diagram and ER diagram for a data processor, considering different operating modes and database connections.

J.P. Morgan Software Engineering Virtual Experience

- Created an interface with a stock price data feed using JPMorgan Chase & Co. frameworks and tools to display data visually increasing user appeal by 25%

HackAP Hackathon

- Qualified twice for the in-person demonstration phase along with my team after the prototype evaluation.
- Built an Android app to detect outsiders/trespassers entering residential zone [GitHub].
- Created a Web app to search LinkedIn profiles with 10+ years of experience in a domain [GitHub].

Artificial Intelligence Primer Certification - Infosys Springboard