

# VENKATA SESHA SAINATH BIRUDURAJU

📞 +91 8555875848 | 📩 birudurajuvankat@gmail.com | 💼 linkedin.com/in/Sainath | 🐾 github.com/Sainath

## OBJECTIVE

Computer Science Engineering student with experience in machine learning systems and web-based applications. Proficient in Python, Flask, and data-driven model deployment, with practical exposure to prompt engineering for AI applications. Interested in cloud technologies and intelligent system development. Seeking entry-level opportunities in AI and software engineering.

## EDUCATION

**Bachelor of Technology in Computer Science and Engineering** 2022 – Present  
Vel Tech University, Chennai CGPA: 7.6

**BIEAP, Class XII** 2022  
Narayana Junior College, Nellore 88.4%

**CBSE, Class X** 2020  
Avenues English Medium High School, Nellore 63.4%

## TECHNICAL SKILLS

**Languages:** Python, C, Java

**Web:** HTML, CSS, JavaScript, PHP, MySQL, Node.js

**AI/ML:** Machine Learning, NLP, OCR, Data Preprocessing, Model Deployment

**Tools:** Flask, Streamlit, Git, GitHub, VS Code

**Cloud:** Streamlit Cloud, Render, Netlify

## SOFT SKILLS

Problem Solving, Quick Learner, Teamwork, Communication, Adaptability

## PROJECTS

**Improving American Accent Using Web Development** Live Project Link

- Designed and developed a responsive web-based platform for improving English pronunciation using phonetics-based learning.
- Implemented interactive modules including phonetics practice, lip-sync visualization, and puzzles.
- Built a client-side authentication system using browser storage for session management.
- Integrated Netlify Forms for automated user feedback collection.

**AI-Powered Intrusion Detection System for Electric Vehicles** GitHub Repository

- Designed and implemented an AI-based intrusion detection system for monitoring in-vehicle network traffic.
- Built Flask-based REST APIs integrated with machine learning models for anomaly detection.
- Deployed backend services on Render for real-time inference and monitoring.
- Developed an interactive frontend dashboard using HTML, CSS, and JavaScript.

**SmartMed AI – Multi language Medical Report Analyzer Using NLP & OCR** Live Demo

- Built an AI-powered system to analyze medical reports using NLP and OCR.
- Implemented Tesseract OCR(Optical Character Recognition) and NLP pipelines for entity extraction.
- Automated classification of medical parameters into health categories.
- Developed multi language interface and interactive UI using Streamlit.
- Deployed on Streamlit Cloud with GitHub-based version control.