

BADUGU AVINASH

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[GitHub](#) | [Portfolio](#) | [LeetCode](#)

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OBJECTIVE

Motivated Computer Science student with strong skills in Python, SQL, and Object-Oriented Programming, focused on building efficient and practical software solutions. Familiar with Flask, API integration, and basic data analysis, and passionate about applying core computer science principles to real-world projects. Committed to continuous learning and contributing to impactful, high-quality technology.

EDUCATION

Kalasalingam Academy of Research and Education, Krishnan Koil

2022 – 2026

Bachelor of Technology in Computer Science and Engineering (CGPA – 8.1 /10.0)

Relevant Coursework: Machine Learning, Artificial Intelligence, DBMS, CN Fundamentals

[Virudhunagar, T.N.]

Sri Chaitanya Junior College

2020-2022

Class XII - 688/1000

[Nellore, A.P]

SIMHAPURI PUBLIC SCHOOL (ICSE)

2016 – 2020

Secondary School Certificate - 501 / 600

[Nellore, A.P]

SKILLS

Languages : Python , SQL, JavaScript, Java

Frontend : HTML , CSS , React.js

Backend : Flask , Django

Databases : MongoDB , MySQL

Technologies : Data Structures and Algorithms , Cloud Fundamentals, Machine Learning, RESTful API

Tools/Platforms: Visual Studio code , Git ,GitHub, Postman

PROJECTS

Full Stack Job Portal Application | Python (Flask), MySQL, HTML, CSS, JavaScript

[Link](#)

- Developed a full stack web application using Flask REST APIs and MySQL for secure CRUD operations.
- Applied Object-Oriented Programming (OOP) principles to ensure modular, reusable, and maintainable code.
- Implemented user authentication and frontend–backend communication using HTTP methods.

YouTube Comment Sentiment Analysis | NLTK (VADER) , REST API,

[Link](#)

- Built a Flask web app that fetches YouTube comments via Data API v3 and analyses sentiment using VADER(NLTK).
- Classified comments as Positive, Negative, or Neutral and visualized results with Matplotlib/Plotly.

Heart Disease Risk Prediction Web| Scikit-Learn, Pandas, Matplotlib, Seaborn

[Link](#)

- Developed a full stack web application implementing a machine learning classification model to predict heart disease risk with 91% accuracy.
- Built an interactive dashboard using Pandas, Matplotlib, and Seaborn to visualize patient data and prediction results

CERTIFICATIONS

• Python Certificate - GeeksforGeeks| [Link](#)

• SQL Certificate - IBM| [Link](#)

ACHIEVEMENTS

- Published a research paper titled “Herb AI: A Mobile Deep Learning Framework for Real-Time Identification and Documentation of Medicinal Plants” in ICOIICS (2025) | [Link](#)
- Hackathon Finalist: Ranked in the top 10 out of 200+participants (2024) for developing an AI-driven solution.
- Led a team of 4+ peers in academic projects.