

# BADUGU AVINASH

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

## OBJECTIVE

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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

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<b>Kalasalingam Academy of Research and Education, Krishnan Koil</b>	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.]
<b>Sri Chaitanya Junior College</b>	2020-2022
Class XII - 688/1000	[Nellore, A.P]
<b>SIMHAPURI PUBLIC SCHOOL (ICSE)</b>	2016 – 2020
Secondary School Certificate - 501 / 600	[Nellore, A.P]

## SKILLS

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**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

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### 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

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- Python Certificate - GeeksforGeeks| [Link](#)
- SQL Certificate - IBM| [Link](#)

## ACHIEVEMENTS

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- 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.