

SHASHANKSARAN R

Bachelor of Engineering in Computer Science and Engineering

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About Me

A motivated Computer Science graduate with a strong foundation in programming, full stack development, and machine learning. Dedicated to solving real-world problems through innovative, tech-driven solutions, with a focus on continuous learning. Proficient in Python, RESTful APIs, and modern web technologies, with a keen interest in emerging tools and frameworks.

Education

NIE Institute of Technology

Bachelor of Engineering in Computer Science (VTU)

2021 – 2025

Mysore, Karnataka

Base PU College

Pre-University (State Board)

2019 – 2021

Mysore, Karnataka

Maharshi Public School

Senior Secondary (CBSE)

2009 – 2019

Mysore, Karnataka

Skills

Software Development: Python, MySQL, RESTful APIs, Django

Web Technologies: HTML, CSS, JavaScript, Node.js, Git, GitHub

Developer Tools: Visual Studio Code, Google Colab, PyCharm

Additional Skills: Microsoft Office, Canva, Adobe Illustrator

Projects

RESTful API Development for Inventory Management System

2025

Technologies: Python, PostmanAPI, SQLAlchemy, SQLite

Developed a RESTful API with full CRUD operations and robust data validation for efficient inventory management.

Code Refactoring and Performance Optimization for Matrix Calculator

2025

Technologies: Python, Tkinter

Refactored codebase to improve readability and performance, optimizing matrix operations for faster calculations.

Real-Time Collaboration Tool

2025

Technologies: JavaScript, Node.js, WebSocket

Built a live collaborative web app enabling multi-user interaction with low latency through WebSocket integration.

Blood Group Prediction Using Fingerprint Images

2025

Technologies: Python, PyTorch, OpenCV, Matplotlib

Developed a CNN-based model to classify blood groups from fingerprint images, applying image preprocessing and visualization.

Parkinson's Disease Detection Using Vocal Frequency

2024

Technologies: Python, TensorFlow, Scikit-learn, Streamlit, Snowflake

Created a machine learning system detecting Parkinson's from vocal features, with an interactive Streamlit UI and cloud deployment.

AirDraw Application

2024

Technologies: Python, OpenCV, Mediapipe

Designed an air drawing app with hand-tracking, supporting pause, resume, color change, and clear functionalities.

Invoice Management System

2023

Technologies: Python, Django, MySQL

Built a web-based invoice system automating billing and tracking with Django backend and MySQL storage.

Experience

CodTech IT Solutions Pvt. Ltd.

Feb 2025 – Jun 2025

Software Development Intern

Hyderabad

Built a real-time collaboration tool with WebSockets for multi-user interaction, refactored open-source projects to improve performance and maintainability, and developed portfolio websites and RESTful APIs using FastAPI.

Dotch Endeavours Pvt. Ltd

Oct 2023 – Nov 2023

AI/ML Intern

Mysore

Implemented ML models for predictive analysis with TensorFlow and Scikit-learn, performed data preprocessing and feature engineering to boost accuracy, and collaborated on AI-driven solutions optimizing real-world algorithms.

Created dynamic calculator and to-do apps using AngularJS, HTML, CSS, and JS, enhanced UX via responsive design and interactive UI elements, and delivered projects timely, following modern web development standards.

Certifications

Foundations of Cybersecurity: Google	2024
Mobile App Development using Flutter: IVIS Labs	2024
Google Cloud Digital Leader Track: Google Cloud	2023

Participation

Hacksprint: PES College of Engineering, Mandya	2024
Google DevFest: NIE North	2023
NIE GFG P4P 2.0: NIE South	2022

Languages

Kannada, English, Hindi, Tamil

Soft Skills

Creativity, Work Ethic, Time Management, Problem solving, Adaptability, Communication, Teamwork