

Om Vastre

+91 93255 90143 | Solapur, Maharashtra | dev.omvastre@gmail.com | linkedin/omvastre | github/om-vastre

Summary

Results-driven software developer with over 2 years of hands-on experience in designing, developing, and deploying complex software solutions. Proficient in advanced programming, deep learning, and IoT technologies, with a solid background in architecture and system design. Demonstrated ability to contribute to cross-functional projects and deliver high-quality solutions in dynamic environments. Seeking to leverage my expertise to collaborate on innovative technology offerings and drive sustainable business outcomes.

Education

Pimpri Chinchwad Education Trust's Pimpri Chinchwad College of Engineering, Pune

Bachelor of Technology, Electronics and Telecommunication Engineering | SGPA: 7.77

Jan 2025

Shri Vithal Education & Research Institute College of Engineering (Polytechnic), Pandharpur

Diploma, Computer Engineering | Aggregate 90.97%

Jan 2019 - Jan 2022

Work Experience

PCCOE

Pune

Research Intern

Jun 2024 - Aug 2024

- Built dataset of N-P-K deficient cotton leaves.
- Trained 3 different deep learning models for detect N-P-K deficiencies & achieved 99.65%, 100%, 99.28% accuracies respectively.
- Applied data analysis techniques to interpret the results, improving the overall quality of research findings.

Nexovation Technologies Pvt. Ltd.

Pune

Software Development Intern

Oct 2023 - Oct 2023

- Developed RESTful APIs using SpringBoot, improving data communication and integration among multiple systems.
- Utilized MySQL for effective database management, ensuring data integrity and efficiency.
- Played a key role in system architecture to ensure scalability and reliability.

Projects

Desktop - Stationary Ecommerce App

Jul 2024

- Developed a cross-platform application using flutter and firebase which facilitates user to login, signup, and purchase stationary items at affordable price.
- User can login, sign up, browse product, search, sort, buy, track product and see history.

Lana - Personalized Chatbot Assistance

Apr 2024

- Developed a conversational AI chatbot (LANA) using Gemma2 and Python Flask to interact with users and provide database-driven responses.
- Integrated Gemma2 language model for advanced text processing and response generation.
- Built a robust Flask backend to handle user interactions, query execution, and result formatting.
- Developed a user-friendly mobile application interface for seamless interaction with the chatbot.

Plant Disease Classification & Analysis

Feb 2024

- A Deep Learning Data Science project built using Python & React.
- Model trained over 61000+ images with 39 classes and came out with accuracy of 96.44%.
- System predicts disease from leaf image and recommends treatments along with visual presentation of disease analysis.

Health Hero

Sep 2023

- IoT based wearable device built using XIAO ESP32S3 & Flutter that tracks industry worker wellness.
- We used Firebase Realtime Database for real-time store & fetch operations.

WeCare - A hospital management system

Aug 2023

- Implemented Spring Boot, MySQL, and React.js to manage patient appointments, prescriptions, and bills.
- Allowing doctors to provide prescriptions and update patient medical attributes.

SoilSense

Apr 2023

- Designed & developed for SoilSense IoT project, proficiently measuring over 8 soil ingredients including NPK and EC.
- Presenting data through an elegant Android UI.
- Implemented predictive analytics and real-time disease/security alerts for enhanced agricultural monitoring.

Yogiraj Traders

Mar 2021

- Developed retail management software for a local trader using Python and Tkinter.
- Key features include bill generation, customer records, transaction tracking, and inventory management.
- Utilized 'openpyxl' for bill creation, optimizing user interaction.

Skills

Programming Languages: C++, Java, Python, Dart, JS, SQL

Frameworks & Libraries: SpringBoot, Hibernate, Swing, AVT, Kivy, Tkinter, Flask, Matplotlib, NumPy, Pandas, TensorFlow, Keras, Scikit-learn, PyTorch, Android, Flutter

Development Tools: MySQL, PhpMyAdmin, Firebase, Git, GitHub, Android Studio, Visual Studio Code, R Studio, Figma, Postman, Microsoft Office Suite

Area/Area(s) of Interest: Data Structures and Algorithms, AI & ML, Data/Business analytics

Communication Skills: Marathi (Native), Hindi (Fluent), English (Fluent)

Other (non-technical): Leadership, Team Collaboration, Problem Solving, Adaptability, Customer Relationship Management (CRM), Research experience, Creative tools

Position of Responsibility

ETSA, PCCOE, Pune

Website Advisor

Aug 2024 - Present

- Building a new website for the ETSA Association.
- Guiding & helping students to improve their skills.
- Implementing a content management system to streamline website updates.

PCET's Youth Conference

Website Team Head

Apr 2024 – May 2024

- Successfully led a 3-person team.
- Developed & delivered a comprehensive website for the Youth Conference event.

Talent Hunt: National Level Technical Event

Event Lead

Apr 2024 – May 2024

- Led a successful 18-person team to execute a comprehensive event with 5 sub-events, including 3 technical and 2 non-technical components.

Award & Certification

Received Mahindra All India Talent Scholarship 2019

Runner of AAROHANA: Startup Speech Competition 2023

MTA: Introduction to Programming Using Python: Certified 2021

Software Development, Artificial Intelligence and Machine Learning with PYTHON Technology: with TechnoWings International IT Solutions Solapur - Industrial Training