

SHRIKANT DHARMAL

Pune, Maharashtra | +91 9370395343 | shrikantdipakdharmal@gmail.com

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

PROFESSIONAL SUMMARY

Software Developer specialized in full-stack, mobile (Flutter), and AI/ML integration. Currently engineering AI-powered EdTech solutions at **SmartCherryAI** using RAG pipelines, LLMs (OpenAI/Groq), and FastAPI. Published researcher and copyright holder for innovative waste management technology.

TECHNICAL SKILLS

- **Languages:** Python, Dart, TypeScript, JavaScript, C, PHP, SQL
- **Mobile & Frontend:** Flutter (Android/iOS SDK), React, HTML5, CSS3, Tailwind CSS
- **Backend & AI:** FastAPI, RAG Pipelines, LLM Integration (OpenAI, Groq APIs), SQLAlchemy
- **Data Science:** Machine Learning, Pandas, NumPy, Scikit-learn
- **Tools:** PostgreSQL, MySQL, Git, GitHub, Azure DevOps, Linux/Unix, Shell Scripting

PROFESSIONAL EXPERIENCE

SmartCherryAI | Pune, MH

Software Developer | Jan 2025 – Present

- Developing the **AI Tutor Framework**, a cross-platform educational application using Flutter and Dart.
- Engineering a FastAPI backend integrated with a **Retrieval-Augmented Generation (RAG)** pipeline.
- Implementing LLM interfaces (OpenAI, Groq) to provide context-aware, intelligent tutoring responses.
- Managing database persistence using PostgreSQL and SQLAlchemy ORM for complex user data structures.
- Building administrative dashboards with React and TypeScript for real-time content management.
- Enhanced user retention by implementing a robust notification system and optimized session management.

Ibase Technologies | Remote

Machine Learning Intern | June 2023 – Aug 2023

- Developed machine learning algorithms for predictive data analysis focusing on large-scale datasets.
- Executed comprehensive data cleaning and preprocessing using Pandas and NumPy to improve model accuracy.

- Collaborated with senior developers to evaluate model performance and optimize feature engineering.

KEY PROJECTS

Waste Management System Web Application (Lead Developer)

- *Copyright Registered (Reg. No: 5/2024)*
- Built a full-stack platform for streamlined waste-related complaint registration and automated resolution routing.
- Integrated dual-pathway solutions (government vs. private) to offer flexible resolution options for users.
- **Technologies:** PHP, MySQL, JavaScript, HTML, CSS.

Crop Recommendation System (ML Project)

- *ML-based Agricultural Support Tool*
- Engineered a data-driven agricultural support tool to recommend optimal crops based on soil and climate data.
- Utilized Scikit-learn for building multi-class classification models with high prediction accuracy.
- **Technologies:** Python, Pandas, Scikit-learn, NumPy.

PUBLICATIONS & INTELLECTUAL PROPERTY

- Copyright: [Waste Management System Web Application](#) (Reg. No: 5/2024)
- Publication: [The Future of Waste Management: Innovation And Environmental Stewardship With Implementation](#) - IJSART, March 2024.
- Publication: [Survey on The Future of Waste Management: Innovation And Environmental Stewardship](#) - IJSART, Jan 2024.

EDUCATION

Bachelor of Engineering (CSE)	Sant Gadge Baba Amravati University	2020 – 2024	73.29%
HSC	Mahatma Fule Jr. College Kherda	2020	73.69%

CERTIFICATIONS

- [Python 3 Programming](#)
- [Python for Artificial Intelligence](#)
- [Machine Learning using AI](#)
- [Cryptography](#)