

PADMANABH MALWADE

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OBJECTIVE

Dedicated back-end developer skilled in Java, JavaScript, TypeScript, and frameworks like Next.js and SpringBoot. Proficient in MongoDB, MySQL and experienced in REST API design using Postman. Currently pursuing Master of Computer Applications at Government College of Engineering, Karad, and eager to contribute to dynamic web projects with strong technical and problem solving skills.

PROJECTS

Recipe Recommendation System [Link](#)

- Designed a personalized recipe recommendation engine based on user-specified inputs, including ingredients, diet preferences, cuisine type, and preparation time.
- Implemented a vectorization algorithm to convert recipe characteristics into numerical vectors and recommend recipes using cosine similarity between user input and existing recipes.
- Enhanced recommendation precision by implementing dynamic filtering for dietary restrictions and cultural food patterns.
- **Tech Stack:** Next.js, Flask, TypeScript, Python, PostgreSQL, Cosine Similarity

Crop Recommendation System [Link](#)

- Engineered a data-driven recommendation system to suggest crops based on user-provided soil data.
- Implemented a machine learning algorithm (Random Forest Classifier) to increase the accuracy of recommendations.
- Integrated a weather forecasting system and yield calculation to help agricultural decision making. The goal is to assist the farmer in making important decisions about crops.
- **Tech Stack:** Next.js, Flask, TypeScript, Python, PostgreSQL, Random Forest Classifier

SkyChat

- SkyChat provides an intuitive and real-time messaging platform, fostering seamless communication.
- Featuring user-friendly interfaces and robust security measures, it ensures a secure and engaging chat experience.
- **Tech Stack:** Next.js, Typescript, MongoDB, PusherJS

SKILLS

Programming Languages - Javascript, Typescript, Java

Frameworks - NextJS, SpringBoot

Databases - MySQL, PostgreSQL, MongoDB

Version Control - Git, GitHub

CERTIFICATIONS

Java Training Certificate, Besant Technologies, Bangalore Jun 2023

Python 3.4.3 Training, Spoken Tutorial Project, IIT Bombay Dec 2024

Database Management System, NPTEL online certification Apr 2025

EDUCATION

Master of Computer Applications Government College of Engineering, Karad Expected - 2026

Bachelor of Computer Applications Sadguru Gadage Maharaj College, Karad 2020 - 2023

EXTRA-CURRICULAR ACTIVITIES AWARDS

- **Cyber Warrior**
Selected as a Quick Heal Cyber Warrior to promote cyber security awareness through presentations and community outreach with safe digital practices. Successfully reached an audience of over 2,400 people.
- **Best Project**
Won 2nd Prize at the project competition conducted by Sadguru Gadage Maharaj College, Karad