

YASH SONAWANE

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EDUCATION

Bachelor of Engineering, Computer Engineering | Savitribai Phule Pune University (SPPU)

May 2025

Coursework: Software Engineering, OOPs, Data Structures, CI/CD, LLM, Algorithms and AI/ML

CGPA: 7.99

XII HSC | Sir Parshurambhau College, Pune, 75.67%

Aug 2021

PROJECTS

College Recommendation System | Full Stack Web Application

- Collaborated to develop an innovative web application using **Python, Django**, identifying patterns in student preferences using **Machine Learning** to provide personalised college recommendations.
- Designed and implemented a **responsive UI** with HTML, CSS, with adaptive entry of preferences and viewing of recommendations, which increased user engagement by 30%.
- Improved the performance of data handling and ML models, through constant troubleshooting and debugging, which **reduced recommendation processing time by 20%**.
- Live-hosted the application on **AWS EC2**, leveraging cloud infrastructure for scalable and reliable performance.
- Added a LLaMA-based chatbot for **real-time college query support**, enhancing user experience and reducing support queries.

Shared Wishlist App

- Developed full-stack app with Vue.js **frontend** and Flask **backend** to enable real-time shared wishlists for groups.
- Implemented **Firebase OAuth** for Google Sign-In, allowing secure login for **100+ users**.
- Designed and built REST APIs to handle CRUD operations for wish-lists and items efficiently.
- Managed **MongoDB** database with optimized schemas, improving data retrieval speed by 30%.

Note It Down

- Created an easy to use software for note management using Java, Servlets, JSP with MySQL database, and styled with HTML, CSS, Bootstrap.
- Applied principles of version control, modular design, and **OOP**, enhancing code maintainability and facilitating 30% quicker feature update cycle.
- Wrote clean, efficient, and well-documented code, ensuring easier maintenance.

Gender and Age Detection

- Developed a high-quality software application using Flask that detects gender and age from uploaded images using a convolutional neural network (CNN), achieving **92% accuracy** on a test dataset of 1000 images.
- Processed **50+ image uploads per hour** with **OpenCV** for efficient image preprocessing, reducing latency by 20%.
- Enhanced model performance by **integrating multi-framework support** (TensorFlow, Caffe and PyTorch), leading to a 30% improvement in image processing speed.

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, HTML5, CSS3

Web Development: Django, Flask, Fast API, React, REST APIs

Databases: (SQL) MySQL, MS SQL Server, (NoSQL) MongoDB

DevOps & SDLC Tools: CI/CD Pipelines, AWS, Agile, Scrum, Git, Maven, Gradle, Postman

EXTRA CURRICULAR ACTIVITIES

Association of Computer Engineers Students (ACES) – Technical Team Volunteer

- Organised technical competitions at the Tectonic Sinhgad technical fest. Involved in organising Events, Hackathons

Youtube Film Making

- Expert in Adobe Premiere Pro, skilled in filmmaking from concept to completion.

CERTIFICATIONS

Java | Java Adv | C++ | Javascript | Python