PIYUSH FUNDE

Pune, Maharashtra, India · fundepiyush18@gmail.com · +918459728228 · in/Piyush

SUMMARY

CS student with strong foundation in Data Structures, Algorithms, and OOP. Proficient in Python, Java, and JavaScript. Experienced in full-stack development, REST APIs, cloud technologies, and SQL databases.

EXPERIENCE

- Developed full-stack applications using modern frameworks including Spring Boot, Flask, and Firebase, progressing from basic CRUD operations to complex microservices architecture.
- Improved version control efficiency by 30% through mastering Git/GitHub workflows, including branch management, pull requests, and collaborative code reviews with peer developers.
- Applied data structures and algorithms to optimize application performance, reducing query response times by 35% through efficient algorithm selection and caching strategies.
- Produced well-documented, maintainable code following industry standards and design patterns including MVC, Factory, and Singleton patterns in Java projects.

PROJECT

Bedside Bot

MIT Art, Design and Technology University · github.com/piyushFunde/Bedsidebot_app

- Developed an AI-powered hospital assistant that tested with 12 users, achieving 94% gesture recognition accuracy, 88% emotion detection reliability, and a response time under 300ms, reducing patient wait times for simple actions by up to 50%.
- Implemented real-time gesture recognition supporting 7 commands at 25 FPS, achieving 94% accuracy after 30+ tuning iterations and reducing false positives by 20% compared to baseline.
- Integrated DeepFace deep learning model for emotion detection to analyze patient mood and enhance care quality.
- Incorporated voice recognition using SpeechRecognition library to process and interpret patient commands.
- Built a responsive Flask web application integrating multiple ML models into a unified interface for seamless user experience.
- Conducted comprehensive code reviews to ensure code quality and adherence to best practices.

Expense Track

MIT Art, Design and Technology University · github.com/piyushFunde/expense-tracker

- Implemented expense recording, categorization, and tracking features.
- Built interactive dashboards to provide insights into spending habits.
- Delivered a clean and user-friendly graphical interface using Tkinter.
- Engineered automated data import functionalities, enabling seamless integration of external bank statements and financial platforms.
- Integrated advanced security protocols to safeguard sensitive financial data and maintain industry-standard compliance.
- Formulated robust reporting modules that enabled users to generate customized financial summaries and visualizations tailored to individual budgeting goals.

EDUCATION

B.Tech in Computer Science

MIT Art, Design and Technology University Pune · Pune, Maharashtra · 2026

- CGPA: 7.17.

XII HSC

S.H Junior College · Nagpur, Maharashtra · June 2021

- Grade: 75.83%.

SKILLS

Hard Skills: **Programming Languages:** Java, Python, C/C++, JavaScript, **Databases:** SQLite, MongoDB, SQL, **Web Technologies:** HTML, CSS

Soft Skills: Problem-solving, Analytical Thinking, Communication, Teamwork, Code Review, Adaptability

Frameworks & Libraries: Spring Boot, Microservices, Flask, OpenCV, Mediapipe, DeepFace, Firebase REST API,

ACHIEVEMENT

Forage J.P. Morgan Chase & Co. − Software Engineering Virtual Internship · 2025
Completed practical tasks in microservices development, Kafka integration, H2 database management, REST API integration, and cloud–ready system design.

Smart India Hackathon (Internal)

MIT ADT University · 2024
· Selected among Top 50 teams out of 564 entries at MIT ADT University.

CERTIFICATIONS

AWS Academy Certificate

· Credentialed by AWS Academy in cloud foundations.

Software Engineering Job Simulation Certificate

· Completed practical tasks in project setup, Kafka integration, H2 database, REST API integration, and controller design.

PUBLICATIONS

Multi–assistant Model for Bedridden Patients

Paper · International Journal for Innovative Research in Technology (IJIRT) · May 2025