PRATHAMESH BHARSAKALE

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SUMMARY

Machine learning engineer skilled in building scalable and efficient ML systems using Python, TensorFlow, Pandas, and scikit-learn. Adept at problem-solving and model optimization with a focus on clean code, reproducible pipelines, and production-ready deployments.

EDUCATION

B.E. in Information technology with honors in AIML	8.40
Trinity Academy of Engineering	Pune, Maharashtra	2022-2026	
Higher Secondary Certificate	75.83%
Maloo International School	Amravati, Maharashtra	2022	

TECHNICAL SKILLS

- **Languages:** Python, Java
- **Frontend:** Reactjs, Html, CSS, Bootstrap, Tailwind
- **Databases:** MongoDB, MySQL
- **Cloud:** Firebase(Hosting)
- **Core AIML:** Pandas, Scikit-learn, NLP, TensorFlow, PyTorch, LangChain
- **Tools:** Git(Version control), PowerBI, Tableau, HuggingFace Transformers, Ollama
- **AI Tooling:** Deepseek R1, Gemini API

INTERNSHIP EXPERIENCE

AIML Intern – Labmentix
March 2025– May 2025

- Collected, cleaned, and augmented datasets to improve model training quality and reduce noise in inputs.
- Performed feature engineering and exploratory data analysis using Pandas and NumPy to identify predictive signals.

MERN Intern – EYGDS
Feb 2025 – March 2025

- Developed responsive user interfaces in React, implementing reusable components, state management, and client-side routing.
- Integrated MongoDB for persistent data storage, designed schema models, and implemented efficient queries and indexing.

PROJECTS

GENERATIVE AI CODING ASSISTANT
GitHub

- **Tech:** Deepseek R1, LangChain, Python, Git
- Built an AI coding assistant using **Deepseek R1**, **LangChain**, and **Python** to provide contextual code suggestions and debugging guidance.
- Reduced developer query resolution time by ~30% during internal testing through targeted suggestions and quick example generation.

Q&A CHATBOT for Legal Queries
GitHub

- **Tech:** Python, Gemini API, scikit-learn, Pandas, Git
- Developed a domain-specific legal chatbot using Python, Gemini API, Pandas, and scikit-learn, trained on 3,000+ curated legal Q&A pairs.
- Achieved ~90% query-resolution accuracy; won a college hackathon and advanced to zonal finals among 130+ teams.

Finance Manager
GitHub

- **Tech:** React, Node.js, Express, MongoDB, JWT, Git.
- Built a secure full-stack finance manager using React, Node.js, Express, and MongoDB with JWT-based authentication and role-based access.
- Optimized API endpoints and database queries for responsiveness; maintained clean, version-controlled code with detailed README and testable modules.

ACHIEVEMENTS

- **Hackathons:** National finalist — Smart India Hackathon 2023; Zonal achiever — Avishkar 2024; participated in **5** hackathons.

- **Organized "Trinovate Synergy" (Event Lead):** Ran a state-level tech event & hackathon with 150+ participants.
- **Data Science Club Coordinator:** Organized **5+** workshops and mentored peers on AI/ML.