ATHARVA NARENDRA BHOLE

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PROFILE SUMMARY

Motivated and results-driven **Software & Machine Learning Engineer** with a strong foundation in frontend **development, DBMS, .** Experienced in building **scalable real-time applications, and machine learning models** for predictive analytics at various competitions and hackathons. Proficient in **Python,React, Node.js(Typescript), and Databases**, with expertise in **database optimization, API development, and cloud-based deployments**. Passionate about researching **AI in healthcare** and developing **high-performance web applications**. A proactive problem-solver with a keen interest in **open-source contributions, competitive programming, and algorithmic challenges**.

WORK EXPERIENCE

Web Developer

Freelancing | April 2025 – June 2025| Remote

- Developed a **robust backend system** for official website (www.crackoffcampus.com)
- Reduced **buffering time by 40%** using compression of response and rate-limiting to **prevent DdoS attacks** on the API
- Used **load balancing technique** to distribute the load of requests on the website

Full-Stack Developer Intern,

Arohi Software | Aug 2024 – Nov 2024 | Remote

- Developed a cloud-based Web Application for dairy management using Aiven(AWS) and Flask
- Optimized database models, **reducing query overhead by 30%** for improved efficiency.
- Led **API development, system design, and testing** to ensure robust solutions.
- Delivered **real-time analytical dashboards** for tracking expenses and collections.

Machine Learning Intern,

Cognifyz Technologies | Jun 2024 – Jul 2024 | Remote

- Built a **recommendation system** using **scikit-learn**, achieving **89% accuracy**.
- Applied **decision trees and ensemble techniques** for restaurant classification and ranking.
- Performed **data preprocessing and exploratory analysis** to improve model performance.

PROJECT EXPERIENCE

Huntington's Disease Prediction (*Machine Learning Engineer*)   Nov 2024 – Jan 2025

- Built a **3D CNN** Model in Tensorflow for MRI-based disease prediction
- Designed the architecture of model to take a raw **3D MRI image and text-based features**
- Conducted extensive **research and experiments** to enhance model accuracy

SepShield: Real Time Sepsis Detection Hospital System   Jan2025 –April2025

- Developed an **AI model** to **predict Septic Shock** before **6 hours with 87% accuracy** along with **LLM** for report generation
- Developed a robust **backend system** in **Microservices** with **Python Flask** and **Typescript** for **isolation of AI model** and security

Event Management Using QR Code   Jun2024 –Jun2024

- **Tech-Stack:** Python, Web Development, phpmyadmin, Bootstrap, Python Frameworks ('flask', 'qrcode', 'mySQL', session)
- A Fully Functional Event Management Web Application, using Python which stores the user data in form of 'qrcode'.
- Implemented session in the web application to reduce the time for filling out user details for each event registration

Chatty: Real-time Chat WebApp   Jan2025 –Feb2024

- Integrated **Cloudinary** for image storage and **Socket.io** for seamless user communication.
- **Deployed** the backend on a **cloud server**, leveraging **MongoDB Atlas** for database management.

EDUCATION

Sandip Institute of Technology and Research Centre   2022-2026
B.E, Computer Engineering
Most Recent GPA: 9.71/10 (**Third Year**)
Coursework: Data Structures and Algorithms, DBMS, OS, Web Technologies, Data Science and Big Data, AI

AWARDS AND ACHIEVEMENTS

- **DIPEX** Hackathon cum Exhibition Finalist
- **Academic Topper** (1st & 3rd Year)
- Runner up in Blind Coding Contest at Inter-Institute Event

SKILLS

Programming: Python, MongoDB, Machine Learning, Deep Learning, DSA, Team-work, Node.JS, React.js, Typescript, SQL
Frameworks & Concepts: Bootstap ,DBMS, Flask, Express, Problem-Solving, SDLC, Next.JS