Anand Umbarkar

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GFG: geeksforgeeks.org/user/anandumbarkar3/ **Leetcode :** leetcode.com/u/anandumbarkar3/

Education

PCET's Pimpri Chinchwad College Of Engineering, Pune *- Expected graduation date: Jun. 2025*
- Bachelor of Technology in **Information Technology**
- CGPA: **8.7**

Government Polytechnic Amravati *- July 2019 to August 2022*
- Diploma in **Computer Engineering**
- Percentage: **93.79**

Harne Vidyalaya Anjangaon Surji *- 2014 to 2019*
- SSC Percentage**: 91.40**

Skills

Languages: C, C++, Java, Python, JavaScript.

Technologies & Framework: HTML, CSS, Bootstrap, ReactJS, MongoDB, Machine Learning, Mysql.

Additional Skills: Communication and Collaboration Skill, Playing Chess, Quick learner, problem solving.

Internship & Work Experience

CELEBAL TECHNOLOGIES
- Position: Summer Intern, React JS Department
- Duration: June 3, 2024 – August 3, 2024
- Focus :Designed and developed scalable front-end components using ReactJS and Redux, improving UI performance and responsiveness by reducing load times by 20% and enhancing task completion rates by 30%. Followed agile methodologies and collaborated in code reviews for maintainable, production-ready code.

Projects

MHMS: Medical Health Monitoring System View Project *- Apr 2025*
- Engineered a real-time IoT-based Medical Health Monitoring System for cardiac patients, integrating sensor-based data acquisition and cloud-based processing for accurate health insights.
- Captured and transmitted real-time ECG, heart rate, fall detection, and GPS data using ESP32 and biosensors, improving patient monitoring accuracy by 30%.
- Streamed health data to Firebase Cloud for continuous monitoring and analysis.
- Integrated custom-trained ML models to predict heart abnormalities and fall detection with **92%** and **95%** accuracy, validated through real-time testing on sensor data.
- Automated emergency alerts through SMS and a responsive web dashboard upon detecting ECG anomalies or fall events, enabling timely intervention and improved patient safety.

Sentiment Analysis using Text Message View Project *- May 2024*
- Conducted sentiment analysis on a Kaggle dataset of **90,000 tweets**, applying advanced preprocessing techniques and feature engineering with unigrams, bigrams, and trigrams.
- Trained and evaluated Naive Bayes, Maximum Entropy, and XGBoost classifiers, achieving the highest accuracy of **98%** with the Maximum Entropy classifier for sentiment prediction on social media text data.
- Applied advanced NLP and machine learning techniques for real-world use cases in social media sentiment detection and customer opinion mining.

Smart Parking System View Project *- April 2024*
- Built a cloud-connected Smart Parking System using the MERN stack to automate space availability detection and streamline parking operations.
- Designed a user-friendly web application for real-time parking availability checks, eliminating the need for physical presence at parking facilities.
- Implemented robust administrative features for managing and updating parking slot statuses, ensuring seamless, real-time updates for users.

Certifications

- Java - Infosys Springboard certificate.
- Web Development- Internshala Internship certificate.
- SQL Intermediate and Basic - Hackerank Certificate.

Achievements & Extra Curriculars

- **Published** a research paper titled *"Sentiment Analysis Using Text Messages"* in IEEE CICT 2024, showcasing NLP and machine learning applications in real-time communication.
- Coding Platforms: **450+ DSA** Problems on GeeksforGeeks, **150+** on Leetcode