

BHAKTI PATIL

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Profile Summary:

Pre Final year CSE (DS) student with profound interest in Machine Learning, Data Analysis & Web Development. Throughout the academic’s gained hands on experience in Python, Java, and web technologies & eager to implement those in real world scenarios.

Education:

- Bachelor of Technology | Computer Science & Engineering (Data Science)** **CGPA: 8.7** | 2022-2026
KIT’s College of Engineering, Kolhapur (Autonomous)
- Higher Secondary Certificate** **89.17 %** | 2020-2022
Chate Junior College of Science, Kolhapur
- Secondary School Certificate** **94.80%** | 2019-2020
Shraddha Modern School, Kagal

Experience :

- Intelligent Automation Virtual Internship by AICTE.** **Sep’23-Nov’23**
 - Gained hands-on experience in developing automation solutions using AI and machine learning algorithms.
 - Automated repetitive business processes, improving operational efficiency and reducing manual effort.
 - Applied intelligent process automation techniques to real-world scenarios, enhancing workflow optimization.

Skills:

- Programming Languages:** Java | C | Python | HTML | CSS | JavaScript
- Framework:** Flask | TensorFlow
- Concepts:** Data Structures & Algorithms (DSA) | Natural Language Processing | OOP | Machine Learning | EDA
- Technologies:** Power BI | Tableau | Canva
- Database:** PostgreSQL

Projects:

- AI-Based Response for Malware Observation and Recognition**
 - **Malware Detection and Classification:** Developed machine learning models to detect and classify Portable Executable (PE) files & URLs as benign, malicious, phishing, or undetected using real-world datasets.
 - **High Accuracy:** Achieved **90% accuracy**, ensuring reliable and efficient malware detection.
 - **Real-Time Analysis:** Built a **web interface** that allows users to upload files or input URLs for real-time malware detection results.
 - **Virus Total API Integration:** Enhanced detection capabilities by integrating **Virus Total API** for cross-verification & accurate threat analysis.
 - **Technology Stack:** Python, TensorFlow, Flask (backend), HTML, CSS, JavaScript (frontend).
- Huffman Coding System:**
 - **Huffman Coding Implementation:** Designed a Huffman tree to create variable-length codes for lossless compression, reducing file size while preserving data integrity.
 - **Performance Optimization:** Focused on optimizing both encoding and decoding processes for efficient performance & accuracy.
 - **Web Interface Integration:** Developed a user-friendly interface where users can upload files, compress them, & download the compressed output.
 - **Technology Stack:** Utilized Python, Data Structures & Algorithms, File Handling, and web technologies (HTML, CSS, JavaScript) for implementation.
- Sentix Spectrum:**
 - **Sentiment Classification:** Implemented machine learning models to classify text data into positive, negative, or neutral sentiments using real-world datasets.
 - **High Accuracy:** Achieved a 90% accuracy rate, optimizing the system for both performance & reliability.
 - **Real-Time Analysis:** Built a web interface allowing users to input text and receive sentiment analysis results in real-time.
 - **Technology Stack:** Used Python, NLP, Machine Learning, Scikit-learn, and web technologies (HTML, CSS, JavaScript) for the project.

Certifications:

- Hackerrank | Python
- AWS | Data Engineering
- Udemy | 40 Real World Data Science and Machine Learning Project
- Udemy | Full Stack Web Development and AI with Python

Extracurricular Activities:

- Core Team Member | E-Cell KITCoEK**
 - E-Cell KITCoEK is a student-run organization at KIT's College of Engineering that fosters entrepreneurship by guiding students in startups and career-building for future success.
- Core Team Member| ACADS (Departmental Student Association) KITCoEK**
 - ACADS is a club for AIML and DS students that focuses on hosting technical events, workshops, and seminars. It also leads initiatives to implement new ideas and innovations..
- Manager | Abhigyan 2024**
 - Abhigyan 2024 is an international student conference which has an accreditation from IIT BOMBAY