

KASHISH BHARDWAJ

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PROFESSIONAL EXPERIENCE

INTERNSHALA TRAININGS

Web Development Intern

Remote

July 2023 – September 2023

- Developed a full-stack PG accommodation search platform using React.js, JavaScript, PHP, and SQL, providing an intuitive and efficient user experience.
- Implemented advanced search and filtering functionalities, improving user engagement by 50% and reducing search time by 40%. Optimized database queries, decreasing server response time by 25%, leading to smoother application performance. Designed a responsive UI, ensuring cross-browser compatibility and accessibility, increasing mobile user retention by 20%.

IIT MANDI IHUB AND HCI FOUNDATION

QAI and DQA Trainee

Mandi, Himachal

August 2024 – November 2024

- Conducted large-scale data preprocessing and AI model training, improving data consistency and accuracy for machine learning applications. Developed AI-driven data validation pipelines, reducing data inconsistencies by 25%, ensuring high-quality training datasets.
- Optimized ML models by applying hyperparameter tuning and feature engineering, decreasing inference time by 30% while maintaining high accuracy. Designed automated testing scripts to improve data quality assessment, reducing manual review time by 40%.

EDUCATION

COER UNIVERSITY

Bachelor of Technology (B.Tech), Major in Computer Science

Roorkee, Uttarakhand, India

September 2022 – Present

- CGPA-7.3/10(Present)

ST. ANN SENIOR SECONDARY SCHOOL

HIGH SCHOOL

Roorkee, Uttarakhand, India

September 2022 – Present

- 12th - 72%
- 10th - 82%

PROJECTS

BLOCKCHAIN-BASED E-VOTING SYSTEM

Sep 2023 – Nov 2023

- Devised a blockchain-based e-voting system that integrated with existing electoral infrastructures, reducing costs associated with traditional voting methods by \$200,000 annually while improving overall election efficiency.
- Automated smart contracts using Solidity to secure voter data, achieving a 35% reduction in potential security vulnerabilities through the incorporation of advanced cryptographic techniques that ensure data integrity throughout the voting process.

ANDROID MALWARE DETECTION SYSTEM USING MACHINE LEARNING

Jan 2024 – Mar 2024

- Designed a machine learning system to classify Android apps as malicious/benign using permission-based features from the Android_Permission dataset of 30000 apps.
- Optimized model performance using stacked ensemble techniques (Random Forest, SVM, MLP, XGBoost) achieving 92% AUC-ROC.
- Implemented risk categorization (Low/Medium/High Risk) based on prediction probabilities for actionable security insights.

SMART PARKING MANAGEMENT SYSTEM

Jan 2025 – Feb 2025

- Developed a full-stack parking monitoring solution using Python/Flask and OpenCV, achieving 95% slot detection accuracy through adaptive thresholding and contour analysis on video streams.
- Engineered real-time Firebase integration that synchronizes slot statuses across 60+ parking spaces with <1s latency, using WebSocket-like updates for dashboard visualization.
- Architected and optimized a multi-threaded system, decoupling video processing (OpenCV) from REST API operations (Flask), resulting in a 40% improvement in responsiveness.

SKILLS

- Programming Languages- Java, Python, Machine learning
- AI/ML - Model Training, Pytorch, TensorFlow, Hyperparameter Training
- Web Development - HTML, CSS, JavaScript, React, Bootstrap
- Databases – MYSQL, SQLite, Firebase, MongoDB
- Tools – Power Bi, Git, Jupyter Notebooks
- Soft Skills: Problem Solving, Team Collaboration, Time management, Multitasking