ABHISHEK R

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HIGHLIGHTS

- Enthusiastic and self-motivated engineering student
- Good foundation in web development and database management
- Eager to learn and apply new technologies
- Basic knowledge of AI and machine learning concepts
- Quick learner with a problem-solving mindset
- Ability to work independently and in a team environment
- Good analytical and structured thinking skills
- Passion for technology and continuous skill improvement

TECHNOLOGY EXPOSURES

- **Programming Languages:** Python, C, Java
- **Databases:** MySQL, NoSQL
- **Web Development:** Frontend and Backend basics using HTML & CSS, Javascript, React
- **AI & Machine Learning:** Search, Reasoning, Learning, Planning, Supervised, Unsupervised, Regression, Clustering
- **Version Control:** Basic knowledge of Git & GitHub
- **Operating Systems:** macOS, Windows, Linux
- **Networking:** OSI & TCP/IP Models, Subnetting, DNS, Routing Basics, TCP/UDP, HTTP/HTTPS
- **Cloud Computing:** Amazon Web Services (AWS), Microsoft Azure, Docker, Google Cloud

ABOUT ME

I am an engineering student with a passion for technology and problem-solving. As a fresher, I am eager to learn and apply my knowledge to real-world challenges. I have a basic understanding of HTML, CSS, MySQL, Python, and related technologies, and I enjoy exploring new tools while working on projects to enhance my skills. I am a quick learner with a strong interest in web development and AI applications, focusing on writing clean and efficient code while continuously improving. I believe in teamwork, structured thinking, and adaptability, which help me approach projects effectively. I am looking forward to opportunities that allow me to grow, gain practical experience, and contribute meaningfully while expanding my technical expertise.

PROJECTS

Crime Management System

Developed a web-based system to record and track crime cases with statuses like pending, completed, and ongoing. It allows easy retrieval of case records from specific police stations, improving data accessibility. Built using HTML, CSS, PHP, MySQL, and JavaScript for efficient case management.

Development of map-matching algorithm using AI-ML techniques to distinguish vehicular movement on highway and service road

Developed a robust map-matching algorithm leveraging AI-ML techniques to improve GPS data accuracy in navigation systems. Utilized a Hidden Markov Model (HMM) for sequence alignment and a Random Forest Classifier for road classification. The HMM optimized transition and emission probabilities to align noisy GPS data with road segments, while the classifier distinguished road types based on geometry, speed limits, and traffic density. Evaluated on real-world datasets, achieving improved accuracy and computational efficiency over traditional methods. This project demonstrates the potential of machine learning in enhancing real-time transportation and navigation solutions.

EDUCATION

Bangalore Institute of Technology, Bangalore
Bachelor of Engineering (B.E.) in Computer Science and Engineering
Currently in 6th Semester | CGPA: 8.73/10.0 (Average of 5 semesters)

St. Joseph's Indian Composite PU College, Bangalore
Pre-University (12th Grade) | 94.83% | 2022

St. Joseph's Indian High School, Bangalore
SSLC (10th Grade) | 92.96% | 2020

Music Genre Classification Web Application Using Deep Learning

Developed a robust web application leveraging deep learning to classify music into 10 genres with 87.69% accuracy. Utilized a Convolutional Neural Network (CNN) with Mel-Frequency Cepstral Coefficients (MFCCs) for feature extraction and Flask for real-time predictions. The CNN optimized spatial pattern recognition in audio data, delivering dynamic visualizations (waveforms, spectrograms) and static performance metrics (confusion matrix, ROC curves). Evaluated on the GTZAN dataset and user-uploaded audio, achieving high accuracy and user-friendly interfaces. This project showcases the integration of AI and web technologies for music analysis and visualization.

SKILLS

Technical Skills

- HTML, CSS, MySQL, Python
- Web Development
- AI and Machine Learning Fundamentals
- Database Management
- Problem-Solving and Logical Thinking

Soft Skills

- Quick Learning Ability
- Teamwork and Collaboration
- Adaptability to New Technologies
- Structured Thinking and Analytical Approach
- Effective Communication

CERTIFICATIONS

Responsive Web Design from FreeCodeCamp

Artificial Intelligence and Machine Learning Training Course from Great Learning

Graph based algorithms from Great Learning

Programming foundations : Algorithms from LinkedIn Learning

Google Cloud Skills Boost Badges

RESUME IN WEB APPLICATION

Click here to view the Web Application (Best viewed in Desktop site)