

Aman Soudagar

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PROFILE INFO

Combining expertise in web development and Python data science, I aim to create innovative applications and extract valuable insights from data. As a software engineer, I'm committed to collaborative problem-solving and adapting to new challenges. My goal is to contribute to impactful projects that leverage both web technologies and data science principles.

EDUCATION

BNM Institute of Technology

Computer Science Engineering - CGPA: 8.67

Bengaluru, Karnataka

November 2022 – March 2026

Indian National PU College

Pre-university College - 85.5%

Bengaluru, Karnataka

August 2020 – May 2022

Delhi Public School Bengaluru South

Central Board of Secondary Education - 83.4%

Bengaluru, Karnataka

March 2014 – March 2020

PROJECTS

Helmet Detection System | *Python, Flask, OpenCV, YOLO, HTML, CSS, JavaScript, MySQL*

June 2024

- Aid traffic police and insurance companies in monitoring helmet compliance, reducing accidents, and facilitating claims processing.
- Ensure helmet usage among employees and participants in corporate settings and sports events, enhancing overall safety.
- Collect data on helmet usage for academic research, urban planning, and public safety campaigns.
- Support initiatives to promote helmet use through real-time data and visual evidence, increasing public compliance.

Noise Suppression System | *Python, Flask, Librosa, SciPy, SoundFile, HTML, CSS, JavaScript, MySQL* June 2024

- Improves audio quality by reducing background noise, suitable for podcasts and music production.
- Enhances voice clarity in teleconferencing and VoIP applications by filtering out ambient noise.
- Improves audio input for hearing aids and assistive devices, enhancing sound perception for users.
- Enhances audio recordings in surveillance systems for clearer analysis and effective security monitoring.

Mining Chat Bot | *Python, Streamlit, Gemini Pro, MySQL*

March 2024

- Applies AI to optimize mining operations, enhancing efficiency and resource utilization.
- Utilizes generative AI for immediate analysis and decision-making in dynamic mining environments.
- Captures and stores user interactions to build a comprehensive knowledge repository for continuous improvement and training.
- Facilitates clear and efficient communication between stakeholders and AI systems, improving operational clarity and effectiveness.

TECHNICAL SKILLS

Languages: C, Java, Python, SQL, HTML/CSS/JavaScript

Developer Tools: Git, VS Code, MATLAB, PyCharm, IntelliJ, WebStorm, Eclipse

SOFT SKILLS

Meticulous, Teamwork, Time management, Diligent

Languages: English, Hindi, Urdu, Kannada

HOBBIES AND INTERESTS

- Photography
- Video Games
- Football