BIPASHA ACHARJEE

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ACADEMIC PROJECTS

❖ *RealGuard: AI-Powered Violence Detection System*
- Analyzes live video streams to identify violent or suspicious behavior instantly and automatically sends **SMS alerts** to emergency contacts or authorities upon.
- Designed to support real-world surveillance needs, making it ideal for schools, public transport, urban areas, Jails.
- HTML5, CSS3, JavaScript, Python, TensorFlow, **YOLOv5, OpenCV,** Twilio API
- https://github.com/Bipasha1005/BINARY.git

❖ *EcoSync*
- Developed a website on an imaginary product IoT-based smart planter using advanced sensors and machine learning for real-time plant health monitoring.
- ChatGPT, Gemeni, Watsonx, IBM Cloud,Promp Engineering
- https://github.com/Bipasha1005/IBM_WCP_PromptEng.git

❖ *Human Pose Estimation using Machine Learning*
- Capable of understanding body posture and motion, enabling gesture-based interactions.
- Useful for exercise monitoring, posture correction, and physiotherapy support. Easily extendable to other pose-based applications like AR/VR or gaming.
- **MediaPipe, OpenCV, TensorFlow,** Python
- https://github.com/Bipasha1005/AICTE_Internship.git

❖ Accident Detection model
- Developed a real-time system using deep learning
- Compared four models to estimate the best one, worked with ResNet50, GoogleNet, AlexNet
- https://github.com/Bipasha1005/Accident-detection-models

❖ *Personal Portfolio*
- Built as a collection of my professional journey and accomplishments.
- Includes detailed resume detailing education, work experience, skills.
- Showcases diverse work samples.
- HTML5, CSS3, JavaScript, Web Hosting
- https://bipashsaacharjeeportfolio.netlify.app/

❖ *Gurukul: Your Gateway to Quality Education and Student Services*
- Provides students proper guidance towards their career.
- Delivers students easy-to-understand notes from expertise.
- Conducts quizzes to evaluate students' knowledge.
- Helps to build skills.
- HTML5, CSS3, JavaScript, Tailwind CSS, PHP, MySQL, Canva
- https://github.com/Bipasha1005/Gurukul

EDUCATION

❖ B. Tech Computer Science and Engineering | JIS College of Engineering   CGPA**:** *8.46 | 2026*
❖ XII (WBCHSE) | Halisahar Ramprasad Vidyapith   *84.4% | 2022*
❖ X (WBBSE) | Halisahar Annapurna Balika Vidyalaya   87.57% | 2020

SKILLS

❖ **Programming Languages:** C, C++, Python, Java
❖ **Web Development:** HTML5, CSS3, JavaScript, Django, php, MySQL
❖ **Learning:** Deep learning, Artificial Intelligence, Machine Learning, SAP

EXPERIENCE

❖ **Infosys Springboard Pragati: Path to Future Cohort 5**   *May'25 - Present*
  - Selected based on consistent learning and course completion across technical and management tracks.
  - Currently pursuing the Data Science Learning Path, including hands-on modules in Python, Machine Learning, and data visualization.
  - Completed certifications in Frontend Development (HTML, CSS, JavaScript) and Management Essentials to build a strong foundation in both tech and leadership.
  - https://drive.google.com/drive/folders/1mBjRlEfn8aETs11lB7iuty29Gq4ya8VT?usp=sharing

❖ **AI: Transformative Learning with TechSaksham | edunet foundation**   *Dec'24 – Jan'25*
  - *Human Pose Estimation using Machine Learning*
  - https://github.com/Bipasha1005/AICTE_Internship

❖ **Mastering in Prompt Engineering | IBM Winter Certification Program**   *Dec'24*
  - Mastered prompt engineering fundamentals to optimize AI model performance and apply generative AI in real-world scenarios.
  - Watsonx, IBM Cloud, Chatgpt, Gemini
  - https://github.com/Bipasha1005/IBM_WCP_PromptEng

❖ **AI Programming with Python Nanodegree Program | Udacity**   *Oct'24 – March'25*
  - Learning Python programming, AI mathematics, deep learning with PyTorch, and Transformer models for NLP in the AI Programming with Python.
  - https://github.com/Bipasha1005/Udacity

❖ **Web Developer Intern | Vault of Codes**   *July'24 – Aug'24*
  - Working on Assignments and projects on Web Development.
  - HTML5, CSS3, JavaScript
  - https://github.com/Bipasha1005/Vault-of-Codes

Online Presence
GitHub: https://github.com/Bipasha1005   LinkedIn: https://www.linkedin.com/in/bipasha-acharjee-b34939253/