Dipan Mazumder

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Portfolio: [Dipan Mazumder](#)

SKILLS

Technical Skills:
- Programming Languages: *Python, Java, C*
- Web Development: *HTML, CSS, JavaScript, Bootstrap*
- Frameworks & Tools: *Django, Flask*
- Version Control: *Git and Git Hub*
- Machine Learning & AI: *Scikit-learn, NumPy, Pandas*

Professional & Soft Skills:
- Leadership: Led multiple technical projects with effective team coordination and decision-making
- Communication: Delivered presentations and collaborated across diverse teams with clarity and confidence
- Problem-Solving: Tackled complex issues and optimized solutions during hackathons and academic projects
- Time Management: Balanced academics, projects, and extracurriculars with a structured approach
- Creativity & Organization: Directed short films, organized events including college tech fests, and adapted quickly to new tools and technologies

CERTIFICATIONS/LICENSES

NPTEL Certification – *Machine Learning Using Python Programming*, URL: [Certificate](#)

IBM Certification - Develop Generative AI Applications: Get Started, URL: [Certificate](#)

Google Certificatiion - Google Data Analytics Capstone: Complete a Case Study, URL: [Certificate](#)

SUMMARY/OBJECTIVE

Motivated Information Technology student with experience in real-time applications, AI integration, and cross-platform development. Seeking opportunities to apply and grow technical skills through innovative projects and collaborative environments. Passionate about solving real-world problems through technology and contributing to impactful solutions. Eager to collaborate with diverse teams and continuously enhance my knowledge in cutting-edge domains like AI, IoT, and geospatial systems.

Projects:

Solo Project:

- PoseTrack | Real-time Pose Estimation using Mediapipe

  - Detect human body landmarks in real-time with high accuracy using Mediapipe.
  - Capture video and process body poses for applications such as expression detection and posture monitoring.
  - Lightweight and fast for use in real-time applications without heavy computational resources.
  - Supports AR/VR through precise body tracking.
  - Technologies: Python, OpenCV, Mediapipe

Team Projects:

- Vrinda – Plant Disease Detection & Community Platform | Hack This Fall 2024
  - AI-powered image-based plant disease detection and recommendations.
  - Community platform for gardening tips and query resolutions.
  - Includes fertilizer calculator, weather-based advice, and a Gemini API chatbot.
  - Technologies: TensorFlow.js, Keras, Streamlit, Gemini API, Node.js, Python

- SARATHI – Unified Attention Monitoring for TransportationMonitor | Hack4Bengal 4.0
  - Detects fatigue and posture issues using Mediapipe and OpenCV.
  - Implements dual-mode monitoring: front-view and side-view.
  - Includes screenshot capture during alert phases and performance-optimized MediaPipe integration.
  - Future scope includes dual-camera IoT setup and edge deployment using Raspberry Pi.
  - Technologies: Python, Mediapipe, OpenCV, Raspberry Pi 4

These are a few highlighted projects; several more are in development and stored locally, showcasing ongoing exploration and innovation.

EDUCATION

- **Techno International New Town** – B.Tech in Information Technology
  - Aug 2023 - Jan 2027 | CGPA: 7.5 / 10
- **Bongaon High School** – Higher Secondary
  - Jul 2023 | Percentage: 80%
- **Bongaon High School** – Secondary
  - May 2021 | Percentage: 85.5%