Piyangshu Banik

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Professional Summary

AI and Full-Stack Developer specializing in machine learning, deep learning, and Flask-based web applications. Experienced in building real-world AI solutions including deepfake detection, intelligent email automation, and crop recommendation systems.

Education

B.E. Computer Science and Engineering (IoT) – Chandigarh University, Punjab	**CGPA: 8.62/10**
Intermediate (Science with Non-Medical) – Hindi Higher Secondary School, Tripura	84%
Matriculation – Assam Rifles Public School, Tripura	94%

Experience

UI - UX Designer and Front-End Developer, DIZS Software Services Pvt. Ltd., Freelance Work	2025-Present (Remote)
Front-End Web Developer, Pinnacle Labs, Internship	2024 (Remote)
Web Developer and Manager, News Usa Portal Hub, (Personal) and TheCommunityWear.com (Work)	2023 - Present

Projects

Krishi-Saathi: A Farmer Friendly AI Based Crop Recommendation System | Python, Flask, HTML, CSS, JS, AI and ML, RandomForest **(September, 2025 – October, 2025)**

- Built a farmer-friendly platform enabling crop recommendations for farmers.
- Developed a Flask-based web application integrating AI and ML models for a complete crop planning system.
- Used multiple agricultural parameters for effective crop recommendation and planning.

Email Summarization, Auto-Categorization & Smart Reply Generation System | Python, HTML, CSS, JavaScript, AI/ML **(November 2025 – December 2025)**

- Developed a complete AI-powered email management solution based on Gmail-style workflows.
- Implemented email viewing with a clean and intuitive UI for full email content access.
- Designed an email summarization module to condense long emails into concise, readable summaries.
- Built an intelligent reply generation system supporting multiple tones including Professional, Friendly, and Casual.
- Integrated auto-categorization to organize emails efficiently based on content and intent.

Deepfake Detection Solution | Python, Figma, HTML, CSS, JS, Flask, ResNet, EfficientNet, TensorFlow **(July, 2025 - October, 2025)**

- Trained deep learning models using ResNet50 and EfficientNet for high-accuracy deepfake classification.
- Achieved strong precision and recall on benchmark datasets.

News USA Portal Hub and The Community Wear | WordPress, SEO Tools, HTML, CSS, JS, AdSense **(June, 2023 - December, 2025)**

- Founded and managed News USA Portal Hub and The Community Wear platforms.
- Implemented SEO optimization strategies and AdSense monetization to enhance traffic and revenue.

Technologies

Languages: C, C++, Python, JavaScript	**Web:** HTML, CSS, Flask, Node.js
AI/ML: ML, DL, NLP, CNNs, ResNet, YOLO	**DataBase:** MySQL, MongoDB, SQL
Tools: Git, GitHub, TensorFlow, Figma	**Other:** REST APIs, Model Deployment