ARPAN PRAMANIK

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PROFESSIONAL SUMMARY

Tech professional with practical experience in machine learning, deep learning, and full-stack web development using the MERN stack. Experienced in designing, training, and evaluating models, implementing CI/CD workflows, and deploying applications on AWS. Research work focuses on healthcare AI, biomedical signal processing, and image-based disease detection.

EDUCATION

- **B.Tech in Computer Science and Engineering (AIML)** | The Neotia University   **CGPA: 9.42** (2023-2027)
- **XII (WBCHSE)** | Sundarban Adarsha Vidyamandir   **Grade: 87.6%** (2022)

SKILLS

- **Programming Languages :**   C, Python, Java, JavaScript, SQL, R
- **AI/ML & Deep Learning:**   TensorFlow, Keras, PyTorch, scikit-learn, NLTK, Transformers (HuggingFace)
- **Frontend Technologies:**   React.js, Next.js, Tailwind CSS, Bootstrap, Redux, HTML, CSS
- **Backend Technologies:**   Node.js, Express.js, FastAPI, Flask, REST APIs
- **Databases:**   PostgreSQL, MySQL, MongoDB, Redis
- **DevOps:**   Docker, Git/GitHub, GitHub Actions, Jenkins, CI/CD Pipelines,
- **Cloud & Deployment:**   AWS (EC2, S3, Lambda), Cloudflare, Cloudinary, DigitalOcean, Vercel, Render
- **Other Tools:**   VS Code, JetBrains IDEs, Postman, Overleaf, Linux, Google Colab, Kaggle

PROJECTS

- **ABHIGRAHA 2K25 -** College Freshers' Website   Live Demo | Github Link
  - **Tech Stack:** React.js, Tailwind CSS, Express.js, PostgreSQL, JWT, bcrypt, Vercel, Render, Git/GitHub
  - Developed a full-stack website with a secure admin panel managing **7+ functional sections.**
  - Implemented **30+ REST API endpoints** for dynamic frontend-backend interaction

- **SSH -** Student Management Platform   Live Demo | Github Link
  - **Tech Stack:** React.js, Tailwind, Express.js, PostgreSQL, JWT, bcrypt, Cloudinary, Vercel, Render, GitHub
  - Built a platform with **3 secure portals** (Admin, Faculty, Student), achieving **100% functional workflows**
  - Created **25+ API endpoints** for submissions, approvals, and reports, ensuring **NAAC/AICTE compliance**.

- **FruitQ-GradeX** – AI-Powered Fruit Quality Assessment   Live Demo | Github Link
  - **Tech Stack:** TensorFlow, Keras, OpenCV, Streamlit, Python, NumPy, Pandas, Matplotlib, XAI(Grad-Cam)
  - Developed a **multi-head CNN** model for dual prediction (fruit type + quality) with **97%+** accuracy.
  - Integrated **Grad-CAM** explainability and built a **Streamlit web** app for real-time image-based grading.

EXPERIENCES

- **Web Development Intern - Xeta Labs** | Assam, Guwahati, India   Jun 2025-Sep 2025
  - Integrated LMS system into client website with **3 sections (Student, Tutor, Admin)** seamlessly.
  - Debugged and resolved **50+ backend issues** to ensure **100%** smooth functionality.
  - Collaborated with a **3-member team** to deploy and test features in real-time client environment.

- **Linux & Network Intern - WEBEL** | Salt Lake, Kolkata, India   Jun 2025-Jul 2025
  - Gained hands-on experience with **Fedora**, user management, & network analytics (**50+ configurations**).
  - Managed and monitored **30+ users**, configured networks, and optimized traffic.
  - Collaborated with a **5-member team** to implement secure and efficient network solutions.

RESEARCH PUBLICATIONS

- S. Dutta, S. G. Neogi, D. Chanda, A. Pramanik, Ö. Girgin and E. L. Öncül, "FruitQ-GradeX: Determining Fruit Quality and Grading with Explainable Deep Learning," 2025 12th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO), Noida NCR, India, 2025, pp. 1-7, doi: 10.1109/ICRITO66076.2025.11241706.
- S. Dutta, S. G. Neogi, S. Chowdhury, V. Chole, A. Pramanik and D. Chanda, "Cropsense: Explainable Deep Learning Framework for Accurate Quality Detection in Solanaceous Crops," 2025 12th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO), Noida NCR, India, 2025, pp. 1-8, doi: 10.1109/ICRITO66076.2025.11241535.

CERTIFICATES & ACHIEVEMENTS

- One Week STTP on "Revolutionizing Signal Processing: The Impact of AI & ML" – DIT-IEEE-SPS, Mar 2025
- 4 IEEE Research Publications in AI/ML, Image Processing & Agriculture Technology (2024–2025)