ARPAN PRAMANIK

📞 (+91) 8509187746   ✉ pramanikarpan089@gmail.com
🌐 arpanpramanik.dev   ⌗ github.com/arpanpramanik2003   in linkedin.com/in/arpanpramanik2003

PROFESSIONAL SUMMARY

Dynamic tech professional with hands-on experience in **Machine Learning, Deep Learning,** and full-stack development using the **MERN stack**. Skilled in **DevOps** practices, **CI/CD pipelines, cloud deployment** on **AWS**, and building **production-ready applications**. Strong **research background** in healthcare AI, 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, **A. Pramanik,** & D. Chanda. "CropSense: Quality Detection in Solanaceous Crops Using Deep Learning with Visual Interpretability". 12th International Conference on Reliability, Infocom Technologies and Optimization (**ICRITO**), Amity University Uttar Pradesh, Noida, India, Sep. 18-19, 2025.

- S. Dutta, B. Adhikari, **A. Pramanik,** and D. Chanda, "An Explainable Deep Learning Approach for Quality Assessment in Solanaceous Crops," International Conference on Computing and Communications (**COMPUTINGCON**), D Y Patil University Pune, India, Sep. 1-3, 2025.

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)