

# Adarsh Bajpai

NIIT University, Neemrana, Rajasthan

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## About

Aspiring Artificial Intelligence and Software Development professional with a strong foundation in machine learning, deep learning and full-stack development. Passionate about building intelligent systems and modern applications that combine performance, functionality, and user experience.

## Skills

- **Programming:** Python, JavaScript, SQL
- **Data Science & ML Libraries:** NumPy, Pandas, Matplotlib, OpenCV
- **Machine Learning & Deep Learning:** CNNs, ResNet, U2-Net (Image Segmentation), Naive Bayes, SVM, Data Preprocessing & Feature Engineering, Model Evaluation
- **Web Framework:** React, Node.js, MongoDB
- **DevOps & Tools:** Git, GitHub, Docker, Jenkins, Postman, Jira
- **UI/UX & Design:** Figma, Wireframing, Prototyping, Adobe Creative Suite (Photoshop, Lightroom, Premiere Pro), Photography
- **Other Skills:** Event Coordination, Team Leadership, Operations & Logistics Management

## Projects

### Leaf Disease Detection System - ML Engineer ([Link](#))

- Built a **hybrid deep learning model (U2-Net + ResNet)** for crop disease detection and severity estimation.
- Achieved **96% classification accuracy**, reducing misclassification rate by ~15%.
- After completion extended it to a full-stack **web app (React + Flask)** enabling image upload, bilingual results, severity scoring and farmer-centric precautionary guidance.
- Integrated an **AI-powered chatbot** using prompt engineering and NLP for real-time farmer queries.

### Zen Habit Tracker - Frontend Lead ([Link](#))

- Developed a **gamified Productivity Suite** integrating habit tracking with a **3D garden visualization** to enhance user engagement.
- Integrated analytics, task and finance management, and focus mode to support productivity and goal tracking.
- **Led frontend development**, building an interactive **React interface** with modular components and Framer Motion animations.
- Optimised **client-side computation** for faster responsiveness and real-time performance, significantly improving user retention.

### Voice Based Email System - Software Developer ([Link](#))

- Built a cross-platform email system enabling users to **compose and send emails** through **voice commands** for improving accessibility.
- Implemented **real-time** speech recognition and speech-to-text using **Google Cloud APIs, Flask, and SocketIO**.
- Integrated secure login and email sending via the user's own **Google account key**.
- Deployed concurrent connections with Eventlet to enable smooth, real-time interaction across browsers.

## Education

- **B.Tech Computer Science (AI Specialisation), NIIT University** [2022 - 2026]  
AI, Machine Learning, Agentic AI & AI Agents, Deep learning, Gen AI, Software Engineering
- **XII, JVP Public School, Jaipur (CBSE)** [2022]
- **X, St. Anselm's School, Jaipur (CBSE)** [2020]

# Experience

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## University Event Organisation Team

[Aug 2022 - May 2024]

NIIT University

- Planned and coordinated all university events including convocations, cultural fests, and parent orientations.
- Managed schedules, guided and led teams, and oversaw on-ground execution to manage events.
- Handled logistics and coordination, ensuring a well-organised experience.

## TEDx Production Lead

[Oct 2022 - May 2023]

TEDxNIITUniversity

- Managed event logistics, covering venue setup, stage design and arrangements,
- Coordinated on-ground staff, vendors and backstage to keep the sessions running smoothly and on time.

## TEDx Tech Volunteer

[Oct 2022 - May 2023]

TEDxNIITUniversity

- Developed the official event website, showcasing speaker profiles, schedules, and ticketing details.
- Collaborated with the design and content teams to integrate visuals, branding, and updates.
- Maintained and updated the site before and during the event, ensuring smooth performance and accessibility.

## Design Head

[Nov 2024 - Present]

Vividha Art Club

- Designed digital assets and stage layouts for creative event concepts,
- Planned, distributed and executed design tasks within the team, ensuring completion of all visual assets.

# Additional

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**Language Skills:** English, Hindi

**Volunteering:** Production(siNUoid), Tech & Production(TEDxNIITUniversity), Mentor(Nanhi Chhaan Foundation)

**Interests/Hobbies:** Designing, Photography, Filmmaking and Art