Nishant Gaur

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EDUCATION

Indian Institute of Information Technology, Kottayam Nov 2022 – May 2026
Bachelor of Technology in Electronics and Communication Engineering

RELEVANT COURSEWORK

Data Structures and Algorithms, MATLAB, Computer Networks, Operating Systems, DBMS, OOPS

TECHNICAL SKILLS

Languages: C/C++, Python, Java, JavaScript
Frontend: HTML5, CSS3, React.js, React Native, Vue.js, TailwindCSS
Backend & Frameworks: Node.js, Express.js, Django, Flask, Spring Boot, FastAPI, REST APIs, Microservices
Databases: MySQL, PostgreSQL, MongoDB
DevOps & Tools: Docker, Git, GitHub, Postman, Vercel, Render, Heroku, Linux
Machine Learning & AI: TensorFlow, PyTorch, Scikit-learn, OpenCV, Grad-CAM, NumPy, Pandas

PROJECTS

Cardamom Leaf Disease Detection | *Python, TensorFlow, CNN, Flask, OpenCV* **GitHub**
- Built an AI-based leaf disease classifier for cardamom crops using a custom **CNN**, achieving **93.7% accuracy** across 3 classes (Healthy, Blight, Phyllosticta).
- Processed **1,800+ images** from Kaggle with augmentation (+300%) and balancing to improve model generalization and reduce overfitting.
- Evaluated multiple ML models and achieved **97.31% accuracy** using a Voting Ensemble (RF + SVM + KNN).
- Designed a lightweight deployment-ready architecture suitable for real-time field usage and scalable for mobile or web application integration.

Rescue Meals | *MongoDB, Express.js, React.js, Node.js, Bootstrap* **GitHub**
- Conceptualized an intuitive Food Waste Management System for a local soup kitchen, subsequently slashing volunteer hours by 30 hours weekly by refining and accelerating food distribution procedures.
- Integrated secure **JWT authentication** and **role-based access control** for admins, donors, and receivers.
- Implemented **Razorpay** payment gateway to facilitate seamless online donations and transaction tracking.

AskIQ | *React.js, Gemini API, TailwindCSS* **GitHub**
- Engineered an AI-powered chatbot interface supporting markdown-rendered responses and syntax-highlighted code blocks.
- Implemented chat grouping, persistent history storage, and one-click copy-to-clipboard to enhance usability.
- Optimized API integration and response handling, leveraging TailwindCSS for styling and reducing latency by **30%**.

Django Web App | *Python, Django, Bootstrap, JavaScript* **GitHub**
- Developed secure user authentication and CRUD repository management (create, read, update, delete) for personal repositories.
- Added file upload and sharing with support for 5 file types (.pdf, .docx, .png, .jpg, .txt); enforced a 50 MB server-side size limit and enabled download tracking.
- Integrated profile management using Pillow to validate and auto-resize profile images (max 512×512 px) and generated thumbnails; used django-crispy-forms for responsive profile forms.

Expense Tracker | *React.js, Bootstrap, Node.js, Express.js, MongoDB* **GitHub**
- Developed a full-stack web application for efficient personal and business expense management, allowing users to record, categorize, and monitor transactions seamlessly.
- Integrated **Chart.js** for dynamic and interactive expense visualizations, increasing user engagement by **40%**.
- Implemented **CRUD operations** (Create, Read, Update, Delete) for managing transactions and categories with optimized backend APIs.

ACHIEVEMENTS

- Solved 200+ problems on LeetCode and GeeksforGeeks strengthening algorithmic problem-solving, debugging, and complexity-analysis skills.
- Secured top spot in SIH 2024 Internal Hackathon with SchemeHub India project.
- Delivered a HealthTech solution at Hackzilla Hackathon, competing with 200+ participants.