DILIPAN R

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AI & Data Science undergraduate building full-stack web apps, REST APIs, and ML prototypes with React, Node.js, Python, FastAPI, and MongoDB. Focused on product engineering and responsive UI development.

EDUCATION

KPR Institute of Engineering and Technology (KPRIET) — B.Tech in Artificial Intelligence and Data Science **Expected March 2028**

TECHNICAL SKILLS

Programming & Web: Python, JavaScript, Java, React, Node.js, HTML5, CSS3, WordPress

ML & Data: PyTorch, scikit-learn, TensorFlow/Keras, pandas, TF-IDF, EfficientNet-B0

Backend & DB: FastAPI, Flask, Express.js, REST APIs, JWT Auth, MongoDB, Mongoose, SQLite, SQL

Tools & Libraries: OpenCV, Vite, Git, GitHub

EXPERIENCE

Artificial Intelligence Intern — SmartED Innovations **July 2026 – October 2026**

- Developed an end-to-end AI spam classification pipeline in Python for automated text filtering.
- Implemented NLP preprocessing and feature extraction workflows to classify labeled messages.

Full Stack Developer Intern — CodeAlpha **June 2026 – July 2026**

- Engineered full-stack e-commerce and social apps pairing React UIs with Node.js backends.
- Architected CRUD endpoints, JWT authentication, and REST APIs across SQL and NoSQL databases.

Web Developer Intern — MayLancer Techios **December 2025 – January 2026**

- Designed and launched a responsive WordPress website with intuitive navigation and mobile UX.
- Customized themes, integrated plugins, and structured production page layouts for maintainability.

PROJECTS

InkloomGuard – AI-Integrated Security Platform | Python, FastAPI, Node.js, Express.js, REST APIs

- Integrated Express.js and FastAPI AI services using Bearer tokens and hmac.compare_digest auth.
- Enforced input validation, env-based secret management, CORS policies, and fail-safe fallbacks.
- Validated API contracts, authentication flows, and error handling across backend and AI services.

DeepGuard – Deepfake Image Detection | Python, PyTorch, EfficientNet-B0, OpenCV, FastAPI

- Trained and deployed an EfficientNet-B0 classifier to detect REAL vs. DEEPFAKE images.
- Automated OpenCV image preprocessing, FastAPI inference endpoints, and a web upload interface.

PharmaFog+ – Multi-Agent Polypharmacy Risk Engine | Python, FastAPI, scikit-learn, React, Vite

- Engineered a polypharmacy risk engine evaluating medication inputs into actionable risk factors.
- Paired a scikit-learn model and rule checks in FastAPI with an interactive React/Vite dashboard.

Campus Lost and Found | React, Vite, Node.js, Express, MongoDB, Mongoose

- Developed a full-stack recovery platform supporting report submission, search, and multi-filtering.
- Implemented role-based admin/student access, status workflows, analytics, and HttpOnly JWT auth.

ACHIEVEMENTS

- **Learn Java** — CodeChef | 27 July 2026
- **Python Essentials** — Cisco Networking Academy | 22 July 2026
- **Marketing Coordinator** — ACM Student Chapter, KPRIET
- Secured 4th place in a CTF cybersecurity competition and inter-college quiz hosted by CIT.
- Participated in a 24-hour hackathon at Karunya Institute of Technology and Sciences.