Kartik Mudgal

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3rd year B.Tech Computer Science student at NIIT University with an excellent record and keen interest and practical exposure in the field of development, especially in CyberSecurity.

Technical Skills

- Programming Languages – Python, JavaScript, Java, Dart
- Frontend Technologies – HTML, CSS, Bootstrap, Tailwind, Flutter, React
- Backend Technologies – Node.js, Express.js, Django, Firebase
- DBMS – MySQL, PostgreSQL, MongoDB
- Cloud – AWS (EC2, S3, RDS), Google Cloud
- Version Control Tools – Git, GitHub

Projects

Wardrobe Wizard [Patent]
Developed an **AI-driven platform** using Django that simplifies outfit selection and online shopping. Features include **Virtual Try-On**, personalized outfit recommendations, and wardrobe integration. Users can upload clothing screenshots to visualize fits instantly. Built custom recommendation models to analyze preferences and suggest styles. Connects users with brands for seamless shopping. Holds a patent for the innovative concept, enhancing user experience and reducing decision-making time.

DiagnoRag
Designed a medical diagnosis agent using multi-modal inputs (Clinical data, Reports, Lab tests, X-rays, DNA tests) to extract symptoms via ETL pipeline. Matched symptoms with **ICD data** for disease identification. Leveraged ML models (NLP, CV), **Fine Tuned LLMs** and knowledge graphs for validation. Ensured explainability with SHAP/LIME. Compliant with HIPAA/GDPR. Tools: Python, TensorFlow, PyTorch, AWS. Delivered AI-driven, data-backed diagnostic solutions for accurate and efficient disease identification.

NuMunch [Link] [Git]
Developed a **full stack e-commerce website** using React, Node.js, Express, and MongoDB. Implemented features such as user authentication, product search, and shopping cart. Deployed the application on **Render** for scalable performance. Also has mobile version built in Flutter.

IdenBust
Developed IdenBust, a Python-based project that identifies whether uploaded shoes are real or fake. It verifies authenticity by comparing the uploaded image with a dataset of original shoes, leveraging machine learning techniques for accurate detection.

Experiences

Tech Volunteer, siNUsoid (Aug-Dec'23)
Served as a Tech Volunteer at siNUsoid NIIT, contributing to community learning and engagement. Built their website using my knowledge in web-dev tech stacks like HTML CSS and JavaScript.

Achievements

- Secured 90%ile in JEE 2022.
- Patent Published in field of Computer Science.

Extra-curricular Activities

- Part of the university Chess Team.
- Hobbies include painting and listening to music.