AMAN KUMAR

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EDUCATION

Birla Institute of Technology, Mesra
Computer Science Engineering   *2025*
- GPA : 8.05

SKILLS

Programming Languages: Java, Python, JavaScript, PHP
Web Development : React, Laravel, Flask, HTML, CSS, TailwindCSS
App Development : React-native
DataBases : MySQL

WORK EXPERIENCE

Kristalball Smart Solutions Private Limited   **Bangalore**
Software Developer Intern   *Jan 2025-Present*
- Lead Frontend Refactoring, migrating class based components to functional components for better readability and maintainability.
- Integrated Prophet a Time Series Forecasting model to predict the stock level for each month.
- Performed Advanced SQL Optimization for an API, reducing query Execution time and improving performance by 61.53%.

Vashions AR Online Services Private Limited   **Remote**
Software Developer Intern   *May 2024-August 2024*
- Developed a Virtual Try on Application using OpenCV, Flask, NumPy, Training a custom YOLOv8 model for region detection delivering both image-based and real-time try on experience.
- Enhanced real-time jewellery try-on with 95% detection accuracy and 90% flicker reduction.Converted this feature into a web application using Flask, WebRTC, WebSockets and Mediapipe enabling seamless jewellery switching and real-time rendering.
- Developed an Interactive Tkinter GUI allowing users to upload jewellery images and engage in live-preview sessions achieving increase in user engagement.

PROJECTS

Military Base Management Application
React-native, Larvavel,MariaDB
- Developed a Military Inventory Management System, ensuring efficient storage and retrieval using a Robust database schema.
- Positions Integrated role-based access control and Authentication enhancing security and ensuring restricted access to sensitive data.

Literary Club College Website
React, Tailwind, Flask, SQLite
- A Blog Application where People can Create, Update and Delete Blogs.
- Ensured Data persistence and User Management with SQLite and JWT Authentication.

ACHIEVEMENTS

- Solved more than 300 questions on [LeetCode](#)
- 5* on HackerRank[JAVA].