Priyanshu Kumar

B.Tech, CSE
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Education

- **Graphic Era Hill University, Bhimtal** — Aug 2022 – Jul 2026
  B.Tech in Computer Science and Engineering — *CGPA: 8.37/10*
- **St. Paul's Sr. Sec. School, Kathgodam** — Mar 2022
  Intermediate — *76.8%*
- **St. Paul's Sr. Sec. School, Kathgodam** — Mar 2020
  Matriculation — *84.8%*

Technical Skills

- **Languages:** Python, C++, JavaScript, Flutter, HTML/CSS
- **Frameworks & Libraries:** React.js, Express.js, Node.js, TensorFlow, OpenCV
- **Databases:** SQL, PostgreSQL, MongoDB, NoSQL
- **Tools & Platforms:** Git, GitHub, VS Code, Jupyter Notebook, Linux, Tensorboard

Projects

- **Intelligent File Management System** | Python, Tkinter — Nov 2023
  - Built an automated file organization platform that reduced manual categorization effort by 70% and accelerated file retrieval by 40%, directly boosting user productivity.
  - Designed a parallel processing pipeline that processed 10,000+ files in under 2 minutes, scaling effectively for enterprise-level datasets.
  - Integrated a rules-based engine capable of classifying 15+ file types with 98% accuracy, minimizing misplacements and human oversight.
- **Real-Time Object Detection System** | Python, TensorFlow, OpenCV — GitHub: Object Detection Model — Dec 2024
  - Enhanced a prebuilt deep learning model and optimized it for efficiency, achieving 95% precision in detecting and classifying objects in real-time video streams.
  - Optimized inference speed using GPU acceleration and quantization, achieving latency of ¡20ms per frame, ensuring seamless real-time performance even on mid-range hardware.
  - Delivered a modular architecture allowing integration with external APIs and IoT devices, and a user-friendly interface that improved usability and adoption during testing.
- **Smart Fitness App** | Flutter, Node.js, AI — GitHub: FitnessApp — Mar 2025
  - Developed a cross-platform fitness application integrating AI-driven pose estimation algorithms (95% accuracy) to monitor and correct workout posture in real-time, reducing chances of injury.
  - Introduced an AI-powered UI/UX system that personalized dashboard layouts and suggestions based on user preferences, improving engagement and enhancing daily active usage by 40%.
  - Delivered a user-friendly interface that improved usability and adoption during testing, while the recommendation engine customized exercise plans and diet suggestions based on historical user data, boosting retention rates by 35%.

Certifications

- Python for Data Science (NPTEL, IIT Bombay)
- Machine Learning A-Z (Udemy)
- Generative AI and ChatGPT (GeeksforGeeks – Ongoing)

Leadership & Achievements

- Core Member, WeCode Club — Organized coding workshops, mentored peers, and co-hosted hackathons with 100+ participants, fostering technical collaboration and innovation.
- Recognized as a Top 50 performer among 600+ students in the CSE program, highlighting consistent academic and technical excellence.
- Currently authoring a research paper on a Real-Time Food Detection System that scans meals to provide recipes, nutritional analysis, AI-driven exercise recommendations, and personalized lifestyle insights, aimed at promoting healthier living through technology.