YASH PATHAK

LINKEDIN • **GITHUB** • **LEETCODE**
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PROGRAMMING LANGUAGES: Python, C, C++

EDUCATION

B.TECH ELECTRONICS AND TELECOMMUNICATION, NOV 2022 - MAY 2026
ST. FRANCIS INSTITUTE OF TECHNOLOGY CGPA: 7.81 (PRESENT)

HSC(HIGHER SECONDARY), SEPT 2020 - APR 2022
ST. PETER'S JUNIOR COLLEGE OF SCIENCE AND COMMERCE PERCENTAGE: 65.83%

PROJECTS

BROWSER AI AGENTS (GITHUB) 2025-26 (ONGOING)

- Designed and implemented an AI-driven travel concierge system, employing a robust multi-agent architecture that incorporates blended agentic solutions.
- Integrated Google Places and Search APIs, utilizing the ADK (Agent Development Kit) by Google and the Gemini model to offer personalized destination suggestions, curate relevant news and event information, and streamline comprehensive trip itinerary management.

FLIP-CHECK (GITHUB) FLIPKART GRID 6.0 (AI + COMPUTER VISION) 2024-25

- Developed an AI-powered freshness detection system using CNNs & OpenCV, achieving 96% classification accuracy for fruits and vegetables.
- Built a multi-feature dashboard using Streamlit, YOLO, Roboflow, Tesseract & PyZbar for real-time freshness detection, OCR, barcode scanning & object counting via webcam.

LUNAR ROVER, ISRO IROC 2024 2023-24

- Engineered an AI-driven lunar rover, focusing on autonomous navigation and machine vision.
- Designed a Autonomous rover with rocker-bogie drive, 5-DOF arm, and real-time ERS(Emergency Response System); secured AIR 9 in design for robust mobility and object manipulation.

TECHNICAL SKILLS

PROGRAMMING LANGUAGES: PYTHON, C, C++
AI/ML FRAMEWORKS: TENSORFLOW, PYTORCH, OPENCV, SCIKIT-LEARN
VERSION CONTROL & OS: GIT, GITHUB, LINUX
OTHER SKILLS: STREAMLIT, FIGMA, FRAMER, SQL(BIGQUERY, MYSQL), GCP
COURSEWORK: DATA STRUCTURES AND ALGORITHMS, DBMS, COMPUTER NETWORKS

EXTRACURRICULAR

PROJECT DEVELOPER, TEAM RAW JUL 2023 - SEPT 2025

- Designed and engineered AI/ML-driven autonomous robots, integrating LQR/PID controllers and real-time object detection, increasing task execution accuracy by 40%.
- Led AI/ML and control system development in ABU ROBOCON, E-Yantra, and ISRO IROC, securing AIR 9 in design in ISRO IROC and advancing to semi-finals in E-Yantra.
- Developed high-precision LQR/PID controllers, reducing robot stabilization error by 30%. Integrated YOLO-based object detection, achieving 95% accuracy.

CERTIFICATIONS

FOUNDATION OF GENERATIVE AI, ACCENTURE-BERTELLSMANN NANODEGREE (2025)