Sourav Toshniwal

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I am eager to apply my technical skills and academic knowledge to real-world challenges in a collaborative and innovative environment. I am passionate about programming and problem-solving, with a strong foundation in software development, cloud computing, and edge technologies. My goal is to gain practical experience, contribute to impactful projects, and further enhance my expertise in cutting-edge technologies.

Education

MIT ADT University *Oct 2021 – Present*
Bachelor of Technology in Computer Science and Engineering

- CGPA: 8.53/10.0 ( )
- **Coursework:** Data Structures and Algorithms, Database Management Systems, Computer Networks, Operating Systems, Computer Organization and Architecture, Software Engineering and Project Management, Cloud Foundations, Internet of Things, Machine Learning Essentials, Edge Computing

Certifications

- Microsoft Certified: Azure Al Fundamentals issued Jan 2024 by Microsoft ( )
- PCAP: Programming Essentials in Python issued Nov 2022 by Cisco Networking Academy ( )
- Full Stack Development Java issued Jan 2023 by Unstop ( )
- CPA: Programming essentials in C++ issued June 2022 by Cisco Networking Academy ( )
- Web Development with HTML, CSS, JavaScript Essentials issued Feb 2024 by IBM ( )
- Frontend Developer (React) issued Apr 2024 by HackerRank ( )
- Learn SQL and SQL Intermediate issued Aug 2023 by Codechef ( )

Projects

Edge Enabled Smart Doorbell System *Github repo*

- Trained a custom facial recognition model on Edge Impulse (99% accuracy, even in low light) and implemented real-time processing on Raspberry Pi 4 with instant email alerts containing captured images.
- Technologies used: Python, Edge Impulse
  Hardware: Raspberry Pi 4 Model B, Webcam

Real-Time Video Surveillance *Github repo*

- Built a real-time industrial lift monitoring system using Python and YoLoV8, achieving 94% accuracy even in low-light conditions, enhancing safety by 30% .
- Technologies used: Python, Machine learning, CV2, Networking
  Hardware: Jetson Orin Nano, CCTV Camera

Touropedia *Github repo*

- Developed a Python-based GUI tour management system with destination recommendations, MySQL integration, and team leadership for feature implementation.
- Technologies used: Python, Tkinter, MySQL

Food Menu Webapp *Github repo* live

- Built a responsive and dynamic food menu application using React.js and Tailwind CSS, featuring API integration and an intuitive Swiggy-inspired interface.
- Technologies used: React.js, TailwindCSS

Technologies

Languages: Python, C++, C, Java, MySQL, JavaScript

Front-end framework: HTML5, CSS3, Bootstrap, TailwindCSS, React.js

Edge Computing: Raspberry Pi 4 model B, Arduino Nano BLE 33 sense, Jetson Orin Nano

Cloud Computing: AWS, Basic Azure

Achievement

- Level B2 CEFR on the Cambridge Linguaskill test , demonstrating proficient English language skills.
- Earned a HackerRank 5-star SQL badge , demonstrating strong proficiency in querying and optimizing the database.

Co-Curricular Activities

- I have led teams in several national hackathons, including the Smart India Hackathon 2023.
- GFG MITADT: Technical team.
- Cloud Computing Club: Website team
- AWSCC MITADTU: Technical team and Website team lead
- Attended Five-Day Workshop on Applied Edge Computing and IoT.