

Sakshat Rao

👤 Portfolio | ✉ sakshatrao99@gmail.com | in LinkedIn

Work Experience

Nvidia

2021 - Present

Senior Verification Engineer

- Worked primarily on functional & performance verification of Tegra SoC & Spectrum Switch sub-systems.
- Handled unit, cluster & chip level verification, testbench design, new feature testing, coverage closure, API development, emulation & post-silicon validation.
- Verified IPs designed for hardware safety management (ISO26262), Reliability-Accessibility-Serviceability (RAS), ARM Cortex processors, RISC-V processors & tiled-crossbar among others.

Nvidia

2020

Hardware Intern

- Implemented protocol-converter enhancements & verified the same using formal verification methodologies.

Achievements

Winning Team of Wharton People Analytics Case Competition 2021

- Developed a data-driven recommendation system & reinforcement learning neural network for 'Teach for America' to help them make optimized offers to their volunteers.

Winning Team of ASEAN-India Hackathon 2021

- Proposed a piracy protection & surveillance system for ships using satellite imaging, piracy hotspot identification & data-driven risk scores.

Winning Team of Smart India Hackathon 2020

- Developed an e-commerce website & mobile app prototype for farmers to view region-wise & variety-wise cotton price forecasts to sell their produce on the platform.

Projects

AIRDASHER

R² Data Labs Hackathon '23

New route analysis tool for airlines

- Developed a web-based tool to assist airlines in new route development & cost analysis using macro-economic data of tier-I & tier-II Indian cities. Winning solution of the hackathon.

The Rurban Traveler

India Automobile Hackathon '22

Smart vehicle IoT-based system

- Proposed to Isuzu an OBD2-based hardware system to track the vehicle's speed, fuel & location to be used for alerts, personalized suggestions & other features. Winning solution of the hackathon.

Hospital Operations Management System

Major Project, NITK

Automated & smart health monitoring for patients

- Created a wearable IoT-based prototype to continuously track patient vitals like temperature, SpO₂, BPM & ECG abnormalities. Medical staff can access the vitals data, analytics & electronic health records under a central web server.

Education

National Institute of Technology Karnataka, Surathkal

2017 - 21

B.Tech. in Electronics & Communication Engineering, 9.44 CGPA