Sagnik Pramanik

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Education:

Heritage Institute of Technology   (2022-2026)

Bachelors of Technology in Computer Science and Engineering (CSE) • CGPA: 9.8

Courses:Operating Systems, Data Structures, Analysis Of Algorithms, Artificial   Intelligence, Machine Learning,Networking, Databases, System Design, Computer Organisation and Architecture, DBMS, OOP, Software Engineering.

Skills:

Languages : Python, Java, C, JavaScript, Arduino

ML & AI : OpenCV, Keras / TensorFlow, PyTorch, Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn, AutoTrain, Langchain, Google AI Studio (formerly MakerSuite), Amazon SageMaker

Databases : SQL, MongoDB

Cloud Services : Google Cloud Platform (GCP), Amazon Web Services (AWS)

Embedded Systems and Electronics : Arduino, Raspberry Pi, ESP8266, ESP32, STM32, ATtiny85, RP2040

Tools & Others : Docker, Kubernetes, CI, CD, Git & GitHub, Postman API, DevOps

Soft Skills : Project Management, Teamwork, Communication, Negotiation, Leadership, Problem-Solving, Effective Time Management, Adaptability, Creativity

Projects:

Real-Time Video Dehazing Software : Dehazes video with smoke / haze and produces a much clearer output. This is the first and only solution for Videos. The entire Software runs 100% On-Device and on any machine with decent computing power. We also achieved a near-zero latency in our tests and can be further improved with more computing power.

Speed detection with ultrasound and automatic speed braking system: Uses Ultrasound to measure car velocity and features an fully automatic speed braking mechanism that slows down a single car in a particular lane, without slowing other cars in the same lane or other lanes. Used Arduino nano (Atmega328p) as the brains and ultrasonic distance sensors (HC-Sr04) for the SONAR.

Multiplayer TicTacToe: Two Users can play TicTacToe from anywhere in the world, just by joining a room. Used socket.io for communication between two agents, Node.js for server side and bootstrap framework for Client side.

Awards and Achievements:

• Winner at HackNITR 5.0, A national level Hackathon, held at NIT Rourkela.
• Certified by Google (x2), Stanford University and DeepLearning.AI, Google Cloud, AWS, The Linux Foundation & Meta.
• Google Cloud Innovator, with multiple Skill badges and Gold League in Google Cloud Study Jam.
• 2nd in BoscoFest 2019: Bosco WayneTech (Inter-School Science Model Making) and 2nd in Science Exhibition 2019.
• Selected as the Coordinator of the Robotics Club of my College
• LinkedIn Top Voice (x5) in the following Categories:
  1. Machine Learning (ML)
  2. Artificial Intelligence (AI)
  3. Deep Learning (DL)
  4. Computer Vision (CV)
  5. Internet of Things (IoT)