Suraj Jaiswal

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WORK EXPERIENCE

Indian Institute of Technology, Kanpur
Project Associate   October 2021-Present

- Developed a full stack Data Retrieval Pipeline to automatically fetch data from 50000+ audio files in remote servers at Ministry of Information & Broadcasting, Government of India.
- Developed a full-scale AI software package with smart teaching and personalized feedback capabilities; currently used by 100+ learners.

Student Research Associate   January 2021-September 2021

- Developed data collection and analysis pipeline in an INR 50 lacs budget project on "Artificial Music Teacher, sponsored by Department of Science & Technology.
- Developed a system for real-time monitoring of MIDI (Musical Instrument Digital Interface) signals using gestures. (Patent Pending)

iSMRITI www.ismrititek.com

IoT Engineer   July 2019- December 2020
- Prototyped a smart band to track individuals in large crowds. Customized and demonstrated to UP Police Dept. for use in Kumbh Mela attended by 150Million+ people.
- Built Wireless Sensor Network Platform with 3 engineers, an IoT based for Industry applications.
- Developed 'Smart IoT Learning Kit' - a brand product for IoT learners; used by 2000+ students and professionals.
- Mentored 1000+ students and professionals in AI and IoT training programs over last 2 years.

IEEE   September 2019 – 2022
Chair, IEEE Robotics and Automation Society - PSIT
Technical Head, IEEE Computer Society - PSIT

ACHIEVEMENTS

- Shortlisted at CUhackit (Hackathon), Clemson University, USA amongst 1000+ international applicants (2020).
- Best Student Award amongst 400+ participants from 50+ colleges in AI & IoT program at IIT Kanpur (2019).
- Winner amongst 100+ participants in IEEE Student Ethics Competition at AlCSSYC '19.
- Winner amongst 50+ teams in software edition of Smart Ignitia Hackathon 2019.
- Shortlisted in top 100 participants amongst 2500+ in the International Hackathon- Hack.Moscow v3.0 (2019).
- Shortlisted, as a group of 6, in top 4 teams amongst 250+ teams for the Smart India Hackathon'2020.
- Led the team shortlisted in top 9 out of 80+, for the National event by IEEE Computer Society (2019).

EDUCATION

Pranveer Singh Institute of Technology, Kanpur
- B. tech, Computer Science & Engineering; CGPA: 6.79 (First Division)   2017 - 2021

The Jain International School, Kanpur
- Intermediate, (CBSE Board, Delhi); Percentage: 75%   2016
- High School, (CBSE Board, Delhi); CGPA: 8.8/10   2014

PROJECTS

- **Controlled Environment Agriculture** - Built a smart IoT based indoor agriculture setup. Monitored and controlled soil moisture, temperature and humidity using sensors, drip irrigation, grow lights and air conditioning via a cloud-based web interface. Successfully grew coriander plants.
- **Deep Learning based Acoustic Scene Classification**- This solution classifies a test recording into one of the provided predefined classes that characterizes the environment in which it was recorded. The solution was deployed on cloud and was used as a mobile application.
- **Autonomous Surveillance Bot Using Neural Network** - A small autonomous robot which uses a neural network deployed on a 10-bit microcontroller for obstacle avoidance. Can perform surveillance over internet.

SKILLS

- Languages - Python, Embedded C, HTML/CSS, JavaScript, MySQL
- Data Analysis, Internet of Things, AI/ML, Google Cloud Platform, Wireless sensor Network, API Development, Git

Languages: English (fluent), Hindi (native), *Nationality:* India