

Arun Kumar

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EDUCATION

- Maharana Institute of Professional Studies** Kanpur, UP, India
Bachelor of Technology - Computer Science; GPA: 7.91
Pursuing
- Sainik School Nalanda** Nalanda, Bihar, India
Intermediate (10+2); Percentage: 84.5
- Sainik School Nalanda** Nalanda, Bihar, India
High School; Percentage: 90.6

SKILLS SUMMARY

- Languages:** Python, C, C++, JavaScript, SQL
- Frameworks:** Django, Flask, React, Node.JS
- Tools and Technologies:** GIT, GitHub, MySQL, NoSQL, REST APIs, MongoDB, Firebase, Arduino IDE
- Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

SmartInternz Virtual
Machine Learning Engineer Virtual Internship Program January, 20 2025 - March, 10 2025

- Virtual Internship Program in Machine Learning Engineer:**
ML Modules, Data
- REST API for Discussion Forum:** Symphony & Twig based Forum parts converted to API-first interface.
- Ratchet PHP WebSocket:** Implemented a WebSocket for low-latency real time exchange of posts and thread updates.

PROJECTS

- Language Translation with Machine Learning (Work in progress):** Developed a machine learning-based language translation system capable of translating text between multiple languages. Implemented sequence-to-sequence models using LSTM and transformer architectures like BERT and T5 for improved contextual accuracy. The system supports real-time translation, enhancing communication, content accessibility, and localization.
Technologies Used: Python, TensorFlow/Keras, Hugging Face Transformers, NLTK, SpaCy
- COVID-19 Patient Real Time Monitoring System (IOT Based):** Designed and Implemented an IoT-based health monitoring system to track vital parameters of COVID-19 patients in real-time. Integrated sensors including DHT11, DS18B20, and MAX30100 with ESP8266 microcontroller to measure body temperature, humidity, SpO2, and heart rate. Displayed real-time vitals on an I2C LCD and transmitted data to a custom web interface for remote monitoring.
Technologies Used: ESP8266, MAX30100, DHT11, DS18B20, HTML/CSS, JavaScript, Arduino IDE, IoT Protocols (HTTP), Web Development
- Netflix Clone:** Built a Netflix Clone as part of a web development project using HTML, CSS, JavaScript, React, and Node.js. The platform allows users to browse movies, manage watchlists, and stream content seamlessly. Designed a responsive UI using React and CSS for a seamless viewing experience. Tech: HTML, CSS, JavaScript, React, Node.js, API, Firebase.

CERTIFICATES

- Internal Smart India Hackathon (2023-24):** Qualified in the event Internal Smart India Hackathon 2023 organized by Computer Science and engineering department on 26th September 2023 and 17th September 2024.
- HackIndia2024:** Participated in HackIndia2024 Hackathon by C Sharp Corner Hack India Spark 7 on 10th and 11th of September 2024.
- Online Vocational Training Program (JAVA):** participated in a short-term course titled "Online Vocational Training Program (JAVA)" sponsored by UPRVUNL IIT, Kanpur from 04th March 2024 to 30th May 2024.

ACHIVEMENTS

- Internal Smart India Hackathon (2023-24):** Qualified in Internal Smart India Hackathon 2024 for National level.
- Built and deployed multiple end-to-end full-stack and IoT projects.
- Consistently participated and performed well in technical workshops and hackathons.