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++, HTML, CSS, JavaScript, SQL
- **Frameworks**: Django, Flask, Node.JS
- **Tools**: GIT, GitHub, MySQL
- **Soft Skills**: Leadership, Event Management, Writing, Public Speaking

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.

ACHIEVEMENTS

- **Internal Smart India Hackathon (2023-24)**: Qualified in Internal Smart India Hackathon 2024 for National level.

DECLARATION

I affirm that the details provided in this Resume are correct and complete to the best of my knowledge. I understand that any false information may lead to the rejection of my application. Place: Kanpur, Uttar Pradesh Date: June 10 – 2025.