Dilip Kumar Sharma

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EXPERIENCE

Aviotron Aerospace Pvt. Ltd   Jaipur, India
STEAM Trainer   *Sept. 2023 - Present*

1. **STEM Curriculum Development** – Expertise in designing and implementing engaging, hands-on learning activities and projects tailored to various age groups in science, technology, engineering, arts, and mathematics.
2. **Robotics and Programming** – Proficiency in robotics platforms (Arduino, Raspberry Pi), programming languages (Python, C++), and circuit design to teach students practical applications.
3. **3D Design and Printing** – Skilled in CAD modelling (Sketchup, TinkerCAD) and operating 3D printers to teach additive manufacturing and prototyping concepts.
4. **Interactive Teaching and Classroom Management** – Ability to simplify complex engineering concepts, foster creativity, and manage collaborative student projects effectively.

NTPC, Kati Process Familiarization of Power Plant Boilers   Muzaffarpur,Bihar, India
Oct.2022 – Aug 2022

A Vocational Training on "Process Familiarization of Power Plant Boilers" from NTPC, Power Plant Management.

SKILLS SUMMARY

- **Languages**: HTML, CSS, XML, Kotlin, JAVASCRIPT, C++, PHP
- **Frameworks**: BOOTSTRAP, Node.js
- **Tools**: Git,
- **Platforms**: Leetcode, VS code
- **Soft Skills**: Leadership, Problem-solving, Analytical thinking, Teamwork, Communication, Time Management, Customer service, Project management, Technical Expertise, Computer skills, Robotics

PROJECTS

- **Fresh/Rotten fruit detection using Raspberry Pie:**
- Designed and implemented a machine learning-based system to classify fruits as fresh or rotten using image recognition.
- Utilized Raspberry Pi for real-time data processing and hardware integration.
- Employed Python and OpenCV for preprocessing and feature extraction from fruit images.
- Trained a convolutional neural network (CNN) for image classification with high accuracy.
- Integrated a camera module with Raspberry Pi for live image capture and detection.
- Developed a user-friendly interface to display results, aiming to reduce food waste and enhance quality control in food supply chains.
- **Key Skills**: Machine Learning, Python, OpenCV, Raspberry Pi, CNN, Image Processing, Real-time Application Development.
- **PHP Form Handling System**
- Developed a dynamic web-based form handling system using PHP and Apache. Integrated MySQL for data storage, enabling user input collection, validation, and database management. Implemented features such as error handling, data sanitization, and secure form submissions to ensure robust performance.
- **Key Skills:** PHP, MySQL, Apache, HTML, CSS, JavaScript, Form Validation, Database Integration.

EDUCATION

- **Gaya College of Engineering, Gaya**   (AKU, Patna)
  Bachelor of Technology - Mechanical Engineering; CGPA: 8.15   *2019 - 2023*

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