Hari Sharan

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Objective

Motivated and versatile engineering student with a strong foundation in Computer Science and core Electronics. Skilled in full-stack development, data structures, and ECE fundamentals like digital logic design and embedded systems. Seeking an opportunity to contribute to innovative tech or interdisciplinary projects that bridge software and hardware domains.

Education

National Institute of Technology, Uttarakhand — Srinagar, Uttarakhand
Bachelor of Technology in Computer Science and Engineering| 7.32 CGPA — *2021-2025*

Jawahar Navodaya Vidyalaya, Dadri Gautam Buddha Nagar — Noida Uttar Pradesh
Intermediate (CBSE)| 77.40%

Jawahar Navodaya Vidyalaya, Dadri Gautam Buddha Nagar — Noida Uttar Pradesh
Secondary Education | 87.40%

Technical Skills

Languages: Java, C/C++, Python ,microcontroleer programming
Machine Learning: TensorFlow, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn
Web Development: React.js, React Hooks, CSS, Tailwind CSS, Node.js, Express.js, MongoDB, SQL
Tools: Jupyter Notebook, PyCharm, Google Colab
Models: ResNet-50, GRU
Other Tools: Git, RESTful API, NPM

Experience

Gaur Sons India Private Limited | Summer Training — Abhay Khand Indrapuram, Ghaziabad, UP
1 month Industrial Training with Database Manager at IT department. — *1st July 2023 – 31st July 2023*

WebstackAcademy | Intern
Successfully completed Full Stack Intern Program with Webstack Academy.
Key role: designed food delivery app with payment integration.

Coursework

Machine Learning, Data Structure and Algorithms, Operating Systems, DBMS, Artificial Intelligence, Compiler Design, Design & Analysis of Algorithms,basic Electronics, Microcontroller and interfacing,Computer Organisation.

Technical Projects

Youtube Shorts Recommendation System — Aug 2023 – Dec 2023

- A dynamic Python-based Recommendation system using Streamlit and personalised through user feedback.
- From video dataset we created high dimensional vector from tags to enable precise content analysis by calculating cosine similarities, ensuring recommendation matches user preferences.
- Scope: App can be designed to protect children by filtering vulgar content.
- **Tools:** Python, Streamlit, Pandas, Scikit-learn, NumPy, Cosine Similarity

Forest Fire Detection (Van Durga) — Jan 2024 – June 2024

- Implements forest fire prediction that takes video as input and detects fire in frames.
- Project is using ResNet-50 and GRU for classification, and classified vector is used to feed as input in YOLO to enhance performance.
- **Tools:** Python, ResNet-50, GRU, YOLO, OpenCV

Digital Dice using 555 Timer + Counter + 7-Segment Display

- Built a digital dice circuit using 555 Timer (astable mode), IC 7490 counter, and a 7-segment display.
- Used timer pulses to increment dice count and logic gates to restrict count between 1 to 6.
- Demonstrated understanding of combinational and sequential logic in hardware circuits.

Achievements

* Solved over 300+ problems in various coding platforms.
* Executive Member, Technical Club: Organized and hosted multiple tech events, fostering innovation and collaboration among students. Managed event planning and technical workshops to enhance learning opportunities.