Hemant Kumar

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EDUCATION

Kalinga Institute of Industrial Technology
October 2021 – Present
Bachelor of Technology in Computer Science & Engineering | CGPA: 8.00
Bhubaneswar, Odisha, India

- *Courses* – Object Oriented Prg., Data Struct. & Algo., Database Mgmt. Sys., Operating Sys., Software Eng., Computer Networks, Artificial Intelligence, Software Project Management, Cloud Computing, Internet of Things

TECHNICAL SKILLS

- **Programming Languages:** C/C++, Python, SQL, Shell Script
- **Platform:** Mac, Windows, Linux/Unix, Ubuntu, WSL, Google Cloud AI Platform, Amazon Web Services, Salesforce
- **Tools:** VS Code, JetBrains-IDE, Git, Xcode, Anaconda Navigator
- **Libraries:** Pandas, Numpy, Tensorflow/Keras, OpenCV, Scikit-Learn, Matplotlib/Seaborn
- **Specialized Knowledge:** Machine Learning, Deep Learning(Neural Network)

EXPERIENCE

Apprenticeship at Unnati Industrial Training Program
May 2024 – Present
Intel Corporation
Remote

- **Trained a deep learning model to identify various individuals in an ICU room, including nurses, intensivists, family members, and patients**, using TensorFlow, YOLO v-8, OpenCV, and Roboflow.
- Processed **real-time video processing for patient activity detection** with minimal error margins, ensuring high accuracy and performance. Documented the technical approach and results in a comprehensive report.

Data Scientist Intern
May 2024 – Present
Celebal Technology
Remote

- Built an **image classification** system using machine learning techniques to categorize images into multiple classes. **Applied models such as SVM, Random Forests, and Gradient Boosting Machines**.
- Extracted features from images to train machine learning models, **enhancing accuracy and performance in classification tasks**.

Internship Trainee
June 2023 – July 2023
Steel Authority of India Limited
Asansol, West Bengal, India

- Gained experience in applying computer technology to control and **optimize large-scale industrial machinery in a lab setting**.
- Improved Optimizing algorithms in the machine laboratory, streamlining the work process and achieving a remarkable **20% reduction in process time**, resulting in enhanced efficiency and productivity.

PUBLICATIONS

Published at OCIT IEEE International Conference, NIT Raipur –
February 2024

- **Deep Learning for Stock Market Prediction: VAE and KELM Approach**

PROJECTS

Self-driving Car Steering System – *Python, TensorFlow, OpenCV, Pickle, Scikit-learn*
November 2023 -Present

- Created an autonomous system to determine **real-time steering directions**, contributing to advancements in vehicle **autopilot** technology.
- Constructed a **real-time simulation** to showcase the model's steering predictions, validated using a **real-world dataset** from Rancho Palos Verdes and San Pedro, California.

Personal Finance Analysis Tool – *Python, Streamlit, Numpy, Pandas*
March 2024 – May 2024

- Designed a web-based application for **uploading CSV files of PhonePe statements** to analyze financial data. The tool provides detailed **monthly spending summaries, top statistics, transaction counts, and daily expenditure reports**.
- Utilized **Python and Streamlit** for building the interactive front-end, and employed **Pandas for data manipulation** and analysis to deliver comprehensive insights into expenditure patterns.

ACHIEVEMENTS

- **ICPC Rank:** Secured **India Rank 4** in the **2023 Post World Finals Online ICPC Challenge powered by Huawei** on Codeforces.
- **LeetCode Contest Triumph:** Achieved a remarkable **55th rank out of 17,827 participants** in a bi-weekly coding contest on LeetCode.
- **Competitive Coding:** Secured **1st university rank and 4th global rank** at Algo University's Graph Contest, demonstrating advanced skills in algorithmic challenges.
- **DSA and CP Questions:** Solved **900+ Data Structures and Competitive Programming** challenges across various platforms, excelling in 500+ questions on Geeks for Geeks and enhancing algorithmic proficiency and creative solutions.
- **Geeks for Geeks Distinction:** Presented consistent coding excellence by consistently ranking university rank **below 20th on the GFG Coding Platform**.