

# UDAY KIRAN KEMA

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**LeetCode** | **LinkedIn** | **GitHub** | **CodeChef** | **HackerRank**

## EDUCATION

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### Sreenidhi Institute of Science and Technology

CSE-DS Bachelor of Technology (BTech)

CGPA: 8.8

Hyderabad

November 2022 - July 2026

## SKILLS

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|-------------------------------|-------------------------------------------------------------|
| <b>Programming Languages:</b> | C++, Java, Python, JavaScript, R                            |
| <b>Libraries/Frameworks:</b>  | scikit-learn, Matplotlib, Django, Pandas, NumPy, Seaborn    |
| <b>Tools / Platforms:</b>     | Git, VS Code, Power BI                                      |
| <b>Databases:</b>             | SQL                                                         |
| <b>Other Skills:</b>          | Data Structures and Algorithms, Object-Oriented Programming |

## PROJECTS

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### Flappy-AI | [Link](#)

*Python*

- Developed an AI-powered Flappy Bird game using the NEAT (NeuroEvolution of Augmenting Topologies) algorithm.
- Implemented an evolving neural network that improves AI-controlled birds' navigation through generations.
- Optimized fitness functions and mutation strategies to enhance learning efficiency.

### TaskManager CLI | [Link](#)

*C++, C*

- A command-line-based Task Manager for Windows, built using C++ and Windows API.
- Lists running processes with their memory usage and allows terminating processes by PID.
- Monitors real-time CPU usage and available RAM using Windows performance counters.

### ReadLister | [Link](#)

*JavaScript, CSS, HTML*

- A web app that helps manage reading lists by categorizing books into:
- Currently Reading, Want to Read, Already Read.
- Uses Google Books API to fetch and manage books in lists.

### Calorie-Burn-Prediction | [Link](#)

*Jupyter Notebook, Python, scikit-learn, pandas*

- Built a machine learning model to predict calorie burn using historical exercise data.
- Utilized the HistGradientBoostingRegressor for high-accuracy predictions.
- Preprocessed data, optimized model performance, and ensured real-world reliability.

## CERTIFICATIONS

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- Machine Learning - **Coursera**
- Responsive Web Design - **FreeCodeCamp**
- Python for Data Science and Machine Learning Bootcamp - **Udemy**
- Software Engineer Intern Certificate - **HackerRank**
- Python for Data Science - **NPTEL**

## ACHIEVEMENTS

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- GeekWeek 2024 Runner-Up, College Level Coding Contest.
- Pupil in **Codeforces**.
- 3-Star in **CodeChef**.