Kampali Usha Paul

Continuous Learner
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LeetCode | **Linkedin** | **GitHub** | **HackerRank**

Education

Ballari Institute of Technology and Management — Ballari, Karnataka, India
Electrical and Electronics Engineering Bachelor of Engineering — Nov 2022 - June 2026
CGPA: 8.75

Sri Vidyanikethan PU College — Gangavathi, Karnataka, India
PCMB PUC — May 2020 - June 2022
Percentage: 85.5%

Jijamata Kanya Prashala — Akluj, Solapur, Maharashtra, India
Degree in SSLC — April 2019 - March 2020
Percentage: 86.80%

Experience

EZ Training and Technologies | Python Programming Intern — BITM | April 2024 - May 2024

Completed a 3-week intensive internship focused on Python programming, gaining hands-on experience in core concepts, problem-solving, and software development best practices.

Participated in structured training sessions led by industry professionals, gaining insights into real-world applications of Python in backend development and system optimization.

Skills

Programming Languages:	Python Programming, HTML, CSS, JavaScript
Tools / Platforms:	VS Code, Git, GitHub

Projects / Open-Source

Travel History Tracker | Link — *Python Programming*

Developed a command-line application using Python and OOP principles to manage travel history, implementing a linked list data structure for optimized storage and traversal of destinations. Features include adding locations (nodes), viewing chronological travel logs (traversal), and removing recent entries (tail deletion), demonstrating core data structure operations.

Locker Management System | Link — *Python & OOP Concepts*

Created a CLI-based system to automate locker rentals using OOP principles, featuring size-based pricing (Small/Medium/Large), user registration, and secure PIN-based access with SHA-256 hashing. Implemented functionalities like real-time locker allocation, payment processing, and automated status updates, demonstrating modular design with classes (Locker, User, Airport Locker System) for scalability. Integrated secure authentication and transaction processes to streamline airport luggage storage operations, ensuring a seamless user experience.

Wind Powered Smart StreetLight — *Wind Energy Conversion, Smart Automation, PowerManagement*

Designed a sustainable, low-cost model integrating a wind turbine (DC motor/generator) to convert wind energy into electricity, stored in rechargeable batteries for powering energy-efficient LED streetlights. Automated light activation using LDR sensors ensured illumination only during low ambient light (night time), reducing energy waste by 50%. Simulated power transmission infrastructure (transformers, towers) to demonstrate grid-like distribution, emphasizing scalability for off-grid communities. Combined renewable energy harvesting, smart automation, and smart storage to showcase an eco-friendly solution for modern urban lighting needs.

Certifications

- Basics of Python - **HackerRank**
- Python Programming - **EZ Technologies**