SHEREEN ANAND

People's Education Society University (PES), Bangalore

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EDUCATION

Bachelor's of Technology in Computer Science and Engineering **Sept 2022 – Jul 2026**
People's Education Society University, Bangalore *CGPA: 2.85/4.0*

KSEEB (KPUC, Class 12) **2020 – 2022**
Rashtreeya Vidyalaya Pre University College *Score: 572/600*

AISSE (CBSE, Class 10) **2018 – 2020**
Sri Kumaran's Children's Home *Score: 465/500*

SKILLS

Programming Languages: Python, Java, C, C++
Web Development: HTML, CSS, Flask, Django
Applied Machine Learning: Scikit-Learn, Pytorch, HuggingFace
Databases: MySQL, SQLite, MongoDB
Tools and Technologies: Git

EXPERIENCE

International Institute of Information Technology Bangalore **May 2024 – Present**
Summer Research Intern

- Working on training matching networks for speech recognition tasks on the Microsoft Gujarati dataset under Prof Ramasubramanian, IIIT Bangalore.

Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram **Jul 2024**
Summer Research Intern

- Working on an analysis to investigate the influence of key factors on cell viability percentages in biological assays under Dr. Monisha Mohan. Implemented ML techniques (random forests and decision trees), to uncover predictive patterns of data.

PROJECTS

Black-Scholes Model Quantitative Finance Project | *Python, Matplotlib* **Apr 2024**

- This project implements the Black-Scholes model, a fundamental theory in option pricing, for numerical computations and solving differential equations. It aims to calculate theoretical prices for European-style options based on market variables like asset prices, volatility, validating its predictions against historical market data to explore applications in financial derivatives.

Skin Cancer ML model | *Pytorch, TensorFlow, OpenCV* **Sept 2023 - Feb 2024**

- Worked on utilising convolutional neural networks (CNNs) and transfer learning to classify skin lesions, improving diagnostic accuracy and enabling early detection of skin cancer. Worked the above project with Dr. Abhay Tiwari at IISC Lab. Achieved 83% accuracy when training the model on the St.John's hospital dataset

Reinforcement Learning for Intelligent Stock Trading | *Python, OpenAI Gym* **Jun 2023 - Dec 2023**

- Applied two Deep Reinforcement Learning based algorithms Deep Deterministic Policy Gradient (DDPG) and Deep Double Q Learning (DDQN) for developing an intelligent stock trading agent in TensorFlow. Trained the agent on a self made OpenAI Gym trading environment based on the data scrapped from the internet.

Suspicious Activity Tracker | *Raspberry Pi, OpenCV, Django, Docker, Apache Kafka, Jenkins, MongoDB* **Apr 2023**

- Worked on an advanced security system that utilizes AI and machine learning to detect and alert authorities about suspicious activities in real-time using a network of cameras and Raspberry Pi devices.

AWARDS AND ACHIEVEMENTS

Smart India Hackathon 2023

- Finalist at SIH.

CLUBS AND EXTRACURRICULARS

Student mentor at IEEE RAS **Spring 2024 – Present**

- I'm mentoring a team of 4 to build a multi robot waste collection system using leader follower approach. I'm engaged in the World robotics championship, focusing on developing robots for maze solving and fast line following.