

SAHIL SUREKA

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Education

Vellore Institute of Technology, Vellore, India

2023-2027

Bachelor of Technology in Computer Science and Engineering

CGPA: 9.14

Senior Core of IEEE PCS (communications and technological chapter)

Mother's Public School, Bhubaneswar (CBSE)

2021-2023

Class 12th

89.2%

(English-87, Mathematics-92, Physics-95, Chemistry-79, Physical Education-93)

St Vincent's Convent School, Berhampur (ICSE)

2020-2021

Class 10th

98.8%

(English-98, Hindi-99, History&Civics-100, Geography-100, Mathematics-95, Physics-93, Chemistry-97, Biology-100, Computer Applications-100)

Experience

HCL Technologies Ltd.

20 May 2024 – 20 July 2024

Remote / India

- Developed a Simon Game website as part of an internship project, designed to engage audiences during server outages. Focused primarily on frontend development using HTML, CSS, JavaScript, and React.js to create an interactive user interface. Collaborated with the team to ensure smooth integration and functionality for seamless user experience and gained hands-on experience in web development and problem-solving, improving technical skills and understanding of real-world applications.

Projects

DeepFake Detector | Python, Tensorflow, Flask, CNN, ViT

February 2025

- Built a DeepFake detection model using Convolutional Neural Networks (CNN) for videos and Vision Transformers (ViT) for images, accessed via a Flask-based web interface, designed the model to efficiently distinguish between real and manipulated media, improving digital content authenticity.

Potato Disease Classifier | TensorFlow, CNN, FastAPI, TFLite

January 2025

- Developed a CNN-based model with data augmentation for disease detection, deployed using TF Serving & FastAPI with TFLite optimization.

Sports Celebrity Classifier | OpenCV, SVM, Flask, jQuery

November 2024

- Built an image classification model using SVM, Logistic Regression, and Random Forest, fine-tuned with GridSearchCV, Integrated OpenCV for face & eye detection, applied Wavelet Transforms, and deployed via a Flask API with a jQuery-based UI.

Technical Skills

AI/ML: Deep Learning (CNN, RNN, ViT), Supervised & Unsupervised Learning, Model Optimization (TFLite, Quantization), Hyperparameter Tuning (GridSearchCV).

Computer Vision: OpenCV (Face & Eye Detection), Image Processing, Feature Engineering, DeepFake Detection, Object Classification.

Languages: Python, Java, C/C++, HTML/CSS, JavaScript

Developer Tools: VS Code, PyCharm, IntelliJ, Eclipse.

Frameworks & Libraries: TensorFlow, Keras, PyTorch, Scikit-Learn, React, Node.js, Flask, FastAPI, pandas, NumPy, Matplotlib.

Extra-curricular Activities

IEEE PCS, Senior Core Committee – Organized a 36-hour Hackathon during Yantra'25 and multiple other events in Gravitas'24 and Rivera'25 – Contributed to web development initiatives and technical projects.