

# KRISHANG RATRA

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## EDUCATION

### Vellore Institute of Technology

Bachelor's of Technology in Computer Science and Engineering (BTech CSE).

Vellore, Tamil Nadu, India

2022-2026

CGPA: 8.63

### Amity International School

Central Board of Secondary Education (CBSE)

Pushp Vihar, Delhi, India

July 2022

Class 12<sup>th</sup> Board: 93.8%

## SKILLS SUMMARY

- **Languages:** Python, Java, C, C++, R, JavaScript, HTML, CSS
- **Frameworks:** Flask, Numpy, Pandas, React JS, Next JS, Tailwind CSS, Bootstrap, Node.js
- **Tools:** Plotly, Matplotlib, Jinja, Git, GitHub, Selenium

## EXPERIENCE

### Fortis Healthcare Limited

#### Software Intern

Gurugram, Haryana, India

June 2024 – July 2024

- Developed a web-based invoicing tool using **Flask**, reducing manual invoice generation time by **70%**.
- Implemented **cloud-based storage** and retrieval for invoices, paired with **automated email and WhatsApp** delivery, cutting dispatch time by **70%**.
- **Tech Stack:** Pandas, Selenium, Flask, Pyodbc.

### Insurance Samadhan

#### Python Intern

Noida, Uttar Pradesh, India

December 2023 – December 2023

- Engineered a data analysis dashboard using **Flask**, allowing real-time visualization of numerical data and **anomaly detection**.
- **Automated outlier detection** and exclusion, reducing manual review errors by **40%**.
- **Tech Stack:** Pandas, Numpy, Matplotlib, Plotly.

## PROJECTS

### EcoFolio: A Carbon Credit Trading Platform (Tech Stack: Solidity, SepoliaETH TestNet, ether, Next.js, Tailwind CSS) | [LINK](#)

- Developed and deployed a **Solidity-based ERC-20 smart contract** for "CarbonCoin" on the SepoliaETH Testnet.
- Built a **responsive** frontend using **Next.js** and **Tailwind CSS**.
- Secured **4th** place in the **CodeChef DevSoc Hackathon** (Environment & Sustainability Track).

### Meal-Meter (Tech Stack: Google Generative AI, Keras) | [LINK](#)

- Built an **AI-driven app** using **Google GenAI** to estimate meal calories and generate personalized diet plans.
- Achieved **85%+ accuracy** across 1,500+ food items, enhancing dietary planning efficiency.

### Cloth-Detector (Tech Stack: React JS, Tensorflow) | [LINK](#)

- A Python program leveraging computer vision to **detect and classify** the types of clothing worn by individuals.
- Applied **classification models** in Cloth-Detector, achieving **92%** accuracy in garment recognition.

### FlaskDataInspector (Tech Stack: Flask, Pandas, Numpy, Plotly) | [LINK](#)

- Developed a **Flask-based data analysis tool** capable of processing datasets with **10,000+ rows**, enabling real-time **error detection, outlier exclusion, and interactive visualizations** to improve data accuracy.

Other Projects: FaceDetectPy, Portfolio Website

## CERTIFICATIONS AND EXPERTISE

- **AWS Certified Cloud Practitioner** - Amazon Web Services (June 2025 - June 2028)
- **The Complete Full Stack Web Development Bootcamp** by Dr. Angela Yu - Udemy (May 2025)
- **Data Analysis Tools:** Processing, visualizing, and interpreting data using data science tools and techniques.
- Currently enrolled in **Oracle Gen AI** certification to build skills in enterprise-grade AI deployment.