KRISHANG RATRA

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EDUCATION

Vellore Institute of Technology   Vellore, Tamil Nadu, India
Bachelor's of Technology in Computer Science and Engineering (BTech CSE).   2022 - 2026
CGPA: 8.63
Amity International School   Pushp Vihar, Delhi, India
Central Board of Secondary Education (CBSE)   July 2022
Class 12th 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

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EXPERIENCE

Fortis Healthcare Limited   Gurugram, Haryana, India
Software Intern   June 2024 – July 2024
- Developed a web-based invoicing tool using **Flask**, reducing manual invoice generation time by **30%**.
- Implemented **cloud-based storage** and retrieval for invoices, paired with **automated email and WhatsApp** delivery, cutting dispatch time by **20%**.
- **Tech Stack: Pandas, Selenium, Flask, Pyodbc.**

Insurance Samadhan   Noida, Uttar Pradesh, India
Python Intern   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 too**l capable of processing datasets with **10,000+ rows**, enabling real-time **error detection, outlier exclusion, and interactive visualization**s 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)*
- **Oracle Cloud Infrastructure 2025 Certified Generative AI Professional** - *Oracle (July 2025 - July 2027)*
- **Data Analysis Tools:** Processing, visualizing, and interpreting data using data science tools and techniques.