Ritabrato **Pani**



PROFILE SUMMARY

A proactive Computer Science student with hands-on experience in Mobile App Development (Flutter, Kotlin) and Web Development. Adept at integrating AI/ML models to enhance application functionality and user experience. Possesses strong problem-solving skills demonstrated through a portfolio of projects that apply modern technologies to solve real-world challenges.

CONTACT DETAILS

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PERSONAL INFORMATION

Citizenship: Indian

Languages: English, Hindi, Bengali

CERTIFICATIONS

Google Generative AI

View

- AICTE Internship

IBM DevOps and Software

Engineering

Verify

– Coursera

Red Hat Enterprise Linux Verify

– Red Hat

Verify

AWS Academy Cloud Architecting

- Amazon Web Services

HOBBIES

Listening Music, Playing Cricket, **Reading Books**

LINKS

Portfolio

EDUCATION

Kalinga Institute of Industrial Technology B. Technology, Computer Science Engineering

Mahesh Sri Ramkrishna Ashram Vidyalaya Higher Secondary Education (12th Grade)

Mahesh Sri Ramkrishna Ashram High School

Secondary Education (10th Grade)

PROJECTS

CalX - Android Calculator App

• Developed a native Android calculator featuring a robust engine, a multi-base number system converter (Bin/Dec/Oct/Hex), and various unit converters.

2022 - Present

2020 - 2022

2010 - 2020

CGPA: 9.11 / 10.0

Percentage: 92%

Percentage: 93%

- · Implemented a user-focused UI with calculation history, dual Light/Dark themes, and modern features like monochromatic icons (Android 13+).
- Tech Stack: Java, XML, Android Studio

Multi-Functional Web Clock

- Developed a responsive, single-page application with vanilla JS, HTML, and CSS, featuring a real-time clock, stopwatch, and countdown timer with full user controls.
- Tech Stack: Vanilla JS, HTML5, CSS3

Synth - Personal Web Music Player

- Developed a fully responsive, single-page music player using vanilla JavaScript, featuring drag-and-drop file uploads (Web File API), full playback controls, and persistent theme customization (LocalStorage).
- Tech Stack: Vanilla JS, HTML5, CSS3, Web File API, LocalStorage

Plant Disease Detection Model

- · Engineered an end-to-end detection system by fine-tuning a YOLOv11 model on the augmented PlantVillage dataset, achieving a final accuracy of 75%.
- Applied **PCA** for feature analysis and implemented extensive data augmentation to optimize model performance.
- Tech Stack: Python, PyTorch, YOLOv11, OpenCV, Scikit-learn

MATLAB Analogue Clock GUI

- Engineered a real-time analogue clock in MATLAB, developing a custom Graphical User Interface (GUI) from scratch and implementing an optimized animation loop for rendering.
- Tech Stack: MATLAB, MATLAB App Designer

TECHNICAL SKILLS

C, C++, Java, Python, SQL, Shell Scripting Languages Mobile: Android Studio, Java, Kotlin, Flutter **Development** Web: HTML, CSS, JavaScript, PHP, MongoDB Scikit-learn, NumPy, Matplotlib, OpenCV

AI / ML MySQL, Oracle DB, PL/SQL **Databases Tools & Tech**

MATLAB, Git, GitHub, MS Office Suite

Core Concepts Data Structures & Algorithms, OOP, OS, DBMS, Com-

puter Networks