

Charchil Raj

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Technical Skill

Languages: Java, Kotlin , C++, JavaScript
Frameworks: Jetpack Compose, Appium, Selenium WebDriver, junit, RestAssured
Development: Android(Native-Kotlin) & Web (HTML, CSS , JavaScript)
Tools/Skill: Git, Android Studio, Postman, VScode, Github, Jetpack Components, Firebase
Soft Skills : Resilience , Perseverance, Rapid Skill Acquisition, Inquisitive Thinker

Projects

Chat Nova – AI-Powered Chatbot Application

January 2025

- Engineered an AI-driven mobile chatbot delivering responsive, human-like conversations using Google’s Gemini API.
 - Built an interactive chat interface with real-time messaging and smooth, animated transitions using RecyclerView.
 - Integrated cloud-based authentication through Fire-base to ensure secure user access and data protection.
 - Enabled offline functionality, allowing users to access core features even in limited connectivity scenarios.
 - Optimized app performance and UI responsiveness for a fluid and engaging user journey.
 - Incorporated contextual response handling, enhancing conversation flow and user satisfaction.
- Technologies Used: Android studio (Kotlin), Firebase, gemini API, Retrofit, XML, Lottie Animations* : Hosted URL: [github](#)

SYNTAX-ERROR-web Application

March 2023

- Developed an interactive web-based coding platform to help users improve their programming skills through structured exercises and challenges.
 - Implemented a responsive UI using HTML, CSS, and JavaScript, ensuring seamless performance across different devices.
 - Integrated real-time feedback mechanisms, enabling users to receive instant responses on coding exercises.
 - Designed and optimized multiple coding challenges, allowing users to enhance problem-solving skills.
 - Collaborated with a team of developers to enhance project features and maintain code efficiency.
 - Deployed the project using GitHub Pages, ensuring easy accessibility and smooth user experience.
- Technologies Used: HTML, CSS, JavaScript* : Hosted url: [github](#)

Automated UI Testing for E-Commerce App

May 2024

- Designed and implemented a robust UI automation suite using Appium and junit, improving test efficiency by 40% for an Android-based e-commerce app.
- Developed 25+ automated test cases covering core user flows such as product search, cart operations, and checkout, leading to 95% test coverage.
- Handled dynamic UI elements using XPath and resource-id strategies, reducing test flakiness by 30% and increasing script reusability.
- Integrated the test suite with GitHub Actions, enabling automated CI/CD testing that decreased regression testing time from 2 hours to under 15 minutes.

Achievements

AI-Powered Early Disease Detection

Feb 2025

Hackathon Project | Team Member

Secured 2nd Runner-Up position in a 24-hour hackathon by developing an AI-based solution for early disease detection using TensorFlow and OpenCV. The project analyzed X-rays and skin images with 95% accuracy and was deployed via a Streamlit web app for real-time predictions. Recognized for problem-solving, creativity, and teamwork in addressing a real-world healthcare challenge provided by industry experts.

Hosted URL: [Github](#)

Certificate Url : <https://certificate.givemycertificate.com/c/9a29bd93-0aaf-416d-9b0b-b3f67687194c>

Certifications

Java Application Development Certification

Issued July 2024

- 50-hour intensive training in Application Development using JAVA
- Completed advanced-level programming coursework covering Java fundamentals and application development

Mastering Data Structures & Algorithms using C

Udemy | Issued: Feb 2024 | 58.5 Hours

- Applied advanced algorithmic techniques to solve real-time problems efficiently in C and C++.
- Developed problem-solving skills and the ability to analyze time and space complexity.

[Certificate Url](#)

Education

Lovely Professional University

Punjab, India

B.Tech (Computer science and engineering) : CGPA - 6.1

since 2022

Holy cross public school

muzaffarpur, Bihar

12th with Science Percentage: 69%

May 2019 - March 2021