Keerthivasan S

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SUMMARY

A software developer proficient in problem-solving and programming languages, excited to contribute technical expertise and innovative thinking within a collaborative team.

EDUCATION

Annamalai University, FEAT   **Chidambaram**

B.E Computer Science and Engineering (Artificial Intelligence and Machine Learning)   *2021 - 2025*

- OGPA : 9.61
- Activities:
    - Class Representative
    - Vice President at Institution of Engineers(India) Student's Chapter
    - Core Member at Students Club

PROJECTS

Staff Sphere   *Project Link*

Kotlin, Jetpack Compose and Firebase

- Situation: Development of a new mobile app to efficiently manage staff details within the department.
- Task: Create a user-friendly Kotlin mobile app for managing staff data efficiently, ensuring easy updates and accessibility.
- Action: Developed mobile app with intuitive interfaces for seamless staff data management, featuring easy updating and retrieval functions with 100% accuracy.
- Result: Successfully constructed mobile app simplifying staff detail management, enhancing updating and accessibility within the department.

Smart Reserve   *Project Link*

Dart , Flutter and Firebase

- Situation: Developing a smart classroom booking app to efficiently manage the department's classroom bookings.
- Task: Develop a user-friendly mobile app with smart features for booking smart classrooms within 2 to 3 minutes.
- Action: Created mobile app integrating real-time availability display, booking confirmation, and reduced 98% of booking conflicts. Implemented intuitive interfaces for easy navigation.
- Result: Streamlined booking processes, minimized conflicts, and interactive user experience with successful app implementation for the average of 80 to 84 booking per week.

Voice Notes   *Project Link*

Java and Firebase

- Situation - Traditional notetaking through typing is a time-consuming process.
- Task - Implement a voice-based Android application to simplify and expedite the note-taking process.
- Action - Designed and implemented a voice-based Android app with accurate recognition for seamless notetaking.
- Result - Efficient and user-friendly application, simplifying notetaking, saving 50% of user's time when compared with traditional note-taking approach, and enhancing overall productivity.

AttendEase
Java, Kotlin and SQLite DB   *[Project Link](#)*

- Situation - Manual attendance management in the university posed challenges.
- Task - Build a mobile app for automated attendance processes.
- Action - Researched requirements and utilized Java and Kotlin to create a user-friendly app, incorporating real-time attendance tracking.
- Result - Successfully streamlined attendance management, reducing errors, enhancing efficiency, and providing a positive impact on university attendance operations.

Mushroom Classifier
Python and Machine Learning   *[Project Link](#)*

- Situation: Developing a mushroom classification model and front-end app for predicting mushroom edibility from 42 features.
- Task: Attain 80% to 90% model accuracy, respond to user feedback, and sustain app functionality.
- Action: Monitor performance, gather feedback, continuously update and optimize model and app, and educate users about limitations.
- Result: Improved accuracy with initiative user experience, increased trust and adoption and positive impact on mushroom safety awareness.

Smile Detector
Java and Machine Learning   *[Project Link](#)*

- Situation - Addressing the demand for advanced facial recognition, the objective was to develop a Smile Detector app using Machine Learning (ML)
- Task - Create a robust mobile application using machine learning to accurately detect the level of a smile.
- Action - Selected a pre-trained smile model having the accuracy ranges from 75% to 95% , integrated it into the android app using API, and implemented features for extracting and displaying the percentage of smile.
- Result - Successfully developed a mobile app that uses machine learning to detect smile levels through the camera.

WORK EXPERIENCE

CodeClause Pvt Ltd   **Online**
Android Developer Intern   *July 2023*

- Crafted robust features, utilizing Java and Kotlin, to enable seamless voice recognition and note creation in the mobile app under a duration of 30 days.

Indian Institute of Space Science and Technology, Trivandrum   **Offline**
Research Intern   *June 2024*

- Utilized the opportunity provided by ISRO for students to deploy experimental payloads in PSLV-Stage 4 by developing a LoRa-based web hosting service for B6GSAT-1, integrating satellite and ground station communication to provide remote access to Malayalam Wikipedia data. Leveraged Raspberry Pi and LoRa technology to bridge digital divides and enhance global digital inclusion.

CERTIFICATIONS

Introduction to Android App Development	- Offered by Meta and Coursera
Basic and Advanced Programming in Kotlin	- Offered by Meta and Coursera
Principles of UI and UX	- Offered by Meta and Coursera
User Interface with Jetpack Compose	- Offered by Meta and Coursera
Version Control	- Offered by Meta and Coursera
Machine Learning Specialization	- Offered by Deeplearning.ai and Coursera
Neural Network and Deep Learning	- Offered by Deeplearning.ai and Coursera
Data Analytics with Python	- Offered by IIT Roorkee and NPTEL
Applied Accelerated Artificial Intelligence	- Offered by NPTEL

SKILLS & INTERESTS

Skills:
- **Programming Language** - C, C++, Java, Kotlin, Python, Dart, JavaScript
- **Framework** - Android SDK, Jetpack Compose, Flutter, Flask, React, TensorFlow, Keras
- **Database -** MySQL, MariaDB, MongoDB, SQLite, Room, Firebase Firestore and Firebase Database
- **Tools** - Android Studio, NetBeans , IntelliJ, Visual Studio Code, Arduino, Anaconda, Google Colab
- **Design Tools** : Figma