Harshad Pachore

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EDUCATION

MIT School of Bioengineering Sciences and Research, *Pune, MH, India*   *August 2018 - May 2022*
B.Tech in Bioengineering
Cumulative CGPA: 7.5/10
Relevant Coursework: Data Analytics, Java and Web Technology, Data Mining and Warehousing, Advanced Java, Machine Learning and Artificial Intelligence

TECHNICAL SKILLS

- **Languages**: Kotlin, Java, Python, HTML, CSS.
- **Frameworks & Libraries:** ReactJs, Flask, Pandas, Numpy.
- **Databases & Cloud Technologies:** MySQL, MongoDB and Firebase, Heroku.
- **IDE & Tools:** Android Studio, Microsoft Visual Studio Code, PowerBI, Burp Suite, Figma, Postman.

EXPERIENCE

SH Forhealth Solution's Pvt Ltd, Software developer Github   Oct 2021 - Present
- Developed an Android full-stack application that manages a robotic lower limb orthosis by assisting patients in performing active isometric and isotonic exercises.
- Utilized **GPIO & MPandroidChart** libraries to fetch realtime data from sensors into **Rpi** & display the data in graphical form into an android application.
- Implemented **RoomDB** to save the sensors data and user management
- Used **Kotlin Coroutines** to handle long-running tasks without letting the app go into an unresponsive state.
- Used the **MVVM**(Model-View-ViewModel) design pattern and the **Dependency Injection** technique with android architecture components like Room,ViewModel with Flow, and Repository pattern in the android app

Soncur Technologies Pvt Ltd, Android developer Intern Github   July 2021 - Oct 2021
- Developed a full-stack application that reflects the essence of one's personal sound captured in jewellery for the unforgettable moments of their life.
- Used **Firebase services** - Authentication, Firebase real-time database, Firebase storage & performed **CRUD** operations.
- Utilized **cameraX** library to analyze photos captured at 60 fps
- Uses **Volley** library to make API calls and parse the **JSON** response.
- Created an API of ML model using python-flask and deployed it on **GCP**

Gurugram Cyber Cell (Virtual), Intern   June 2021 - July 2021
- Gained knowledge regarding Cyber Forensics, Cloud Security, Cryptocurrency Investigation, & Social Media Crimes.
- The internship included researching real-world cybersecurity attacks against organizations, understanding cyber laws.

PROJECTS

Bookmine (Android Application) | Github   April 2021 - May 2021
- An app where users can explore the collection of books by author name & category can view their ratings and references.
- Utilized **RecyclerView** to effectively manage resource allocation and display a list of books based on genre and author.
- Used **Firestore Database** to store the data.
- Implemented **Pagination** to reduce the loading time and consumption of Internet

Analysis of Chronic Kidney Disease Dataset by Applying Machine Learning Methods Github   Feb 2021 - May 2021
- Created an ML model which can predict if the ckd is present or not using various supervised learning algorithms like SVM, KNN, Decision Tree, Random Forest with an efficiency higher than 99%.
- Integrated the model with website (designed using **Figma**) using **Flask Framework**

CERTIFICATIONS & ACHIEVEMENTS

- **Certified Ethical Hacker** (EC-Council)   *Oct 2021*
- Cyber Security Essentials (ICSI)   *April 2020*
- Got listed as one of the **Top 15** Security Researcher in the **newsletter** announced by **NCIIPC India**   *July 2021*
- Acknowledged by **Scottish Government** for reporting Cross Site Scripting vulnerability (Year 2021)
- Received 2 bounties from companies (Exmo, Pon Security) for identifying security flaws in their websites and android application. Acknowledged by Olx, US department of defence 10+ organizations for securing their infrastructure.