

# Dhruv Hedao

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## Objective

As a dedicated Computer Science undergraduate at VIT Bhopal, I aim to leverage my technical skills in **Android app development**, **Java/Kotlin programming**, and a solid foundation in **Data Structures and Algorithms** to contribute to innovative, real-world projects. I am seeking opportunities where I can apply my knowledge in **mobile development**, **full-stack technologies**, and **problem-solving** to grow as a software developer while delivering value to the organization.

## Experience

### Android Development Intern

Imarticus Learning — June 2025 to July 2025

- Developed Android applications using **Java** and **Kotlin** in Android Studio.
- Designed clean, user-friendly interfaces using **XML**, **Constraint Layout**, and **Material Design principles**.
- Integrated APIs using **Retrofit** and managed local storage with **SQLite**.
- Applied core concepts like **Activity & Fragment lifecycle**, **View Model**, and **MVVM architecture**.
- Gained exposure to real-world app debugging, version control with Git, and agile workflows.

### Software Developer (Android & Full Stack)

- Hands-on experience building Android applications using Java and Kotlin, with focus on scalable UI, data persistence, and API integration.
- Comfortable working across the entire development lifecycle — from planning and design to coding, testing, and debugging.
- Strong foundation in Data Structures and Algorithms (PW Decode 2.0), enabling efficient problem-solving and code optimization.
- Familiar with web technologies like HTML, CSS, JavaScript, and React.js for developing interactive frontend interfaces.

- Proficient in using Git for version control and collaborating in team-based workflows.
- Eager to contribute to innovative projects and continuously learn new tools, frameworks, and practices in the evolving tech landscape.

## Technical Skills

- **Programming Languages:** Java, Kotlin, Python, C++, JavaScript
- **Android Development:** Android Studio, XML Layouts, MVVM Architecture, Retrofit, SQLite, View Model, Live Data
- **Web Development:** HTML, CSS, JavaScript, React.js, Bootstrap
- **Data Structures & Algorithms:** Arrays, Trees, Graphs, Recursion, Sorting, searching (Completed PW Decode 2.0)
- **Tools & Platforms:** Git, GitHub, Canva, Adobe Photoshop, Microsoft Excel, PowerPoint
- **Data Science Tools (Basic Exposure):** Pandas, NumPy, Matplotlib, TensorFlow, Scikit-learn
- **Version Control & Deployment:** Git, GitHub

## Key Contribution

- Successfully completed a **summer internship** in Android App Development at **Imarticus Learning**, where I developed user-centric mobile applications using **Java**, **Kotlin**, and **Android Studio**.
- Implemented API communication with **Retrofit**, handled local data persistence using **SQLite**, and built adaptive UI layouts using **XML** and **Material Design** components.
- Gained proficiency in **MVVM architecture**, **Activity & Fragment lifecycle management**, and app optimization for performance and user experience.
- Completed **PW Decode 2.0** certification, gaining strong practical knowledge in **Data Structures and Algorithms**, including linked lists, trees, recursion, dynamic programming, and sorting techniques.
- Actively building personal Android projects and exploring **React.js** to develop interactive frontend experiences; learning full-stack development by integrating with backend APIs.
- Participated in the **Code2Career Aptitude Challenge**, benchmarking logical thinking, quantitative reasoning, and problem-solving under pressure.
- Collaborated with peers on debugging sessions, code walkthroughs, and shared GitHub repositories to practice real-world coding workflows.
- Utilized **Git** and **GitHub** for version control in all personal and team projects; confident in branching, pull requests, and open-source collaboration etiquette.
- Exploring **basic machine learning concepts** using tools like **TensorFlow**, **Scikit-learn**, and **NumPy**, with plans to build data-driven applications.

- Regularly attend online workshops, coding events, and developer meetups to stay updated with trends in Android, Web, and Software Engineering.

## Education

### **Bachelor of Technology (Btech) in Computer Science Core**

VIT Bhopal University

**Expected Graduation:** 2027

**CGPA:** 8.62 / 10

- Focus Areas: Android App Development, Data Structures & Algorithms, Full-Stack Web Technologies
- Relevant Coursework: OOPs, Operating Systems, DBMS, Computer Networks, DSA, Software Engineering

### **Senior Secondary (Class 12th)**

S.B. Jain International School, Nagpur

**Year of Completion:** 2022

**Percentage:** 68%

### **Secondary School (Class 10th)**

Neemuch, Madhya Pradesh

**Year of Completion:** 2020

**Percentage:** 82%

## Project details

### **House Price Prediction System**

Tech Stack: Python, Scikit-learn, Pandas, NumPy, Matplotlib, HTML, CSS, JavaScript

Developed a machine learning model to predict house prices based on location, area, and other features. Integrated the model into a web application with an intuitive UI where users can input data and receive instant predictions. Used Scikit-learn for training, Matplotlib for visualization, and HTML/CSS/JS for frontend design.

### **Chemical Compound Analysis using ML**

Tech Stack: Python, XGBoost, Scikit-learn, F1-Score, Matplotlib, Kernel Gradient Boosting

Built a classification model to analyze chemical compound datasets and predict reactivity or potential risks. Utilized XGBoost for feature importance analysis, used F1-score for model evaluation, and applied kernel-based gradient boosting to improve precision. Visualized performance metrics using Matplotlib.

## **Rock Paper Scissors Game (Web App)**

Tech Stack: HTML, CSS, JavaScript

Created an interactive browser-based Rock Paper Scissors game. Implemented game logic, randomized AI moves, and dynamic score tracking. Designed a responsive UI for a smooth and engaging user experience across devices.

## **KBC Quiz Model (Web Application)**

Tech Stack: HTML, CSS, JavaScript

Designed a "Kaun Banega Crorepati"-inspired quiz app with lifelines and timer-based questions. Used JavaScript to manage logic, animations, and audio cues. The app offers an interactive way for users to test general knowledge in a gamified format.

## **Life Link – Blood Donor System**

Tech Stack: HTML, CSS, JavaScript

Developed a web-based platform to connect blood donors with recipients in real-time. Included features such as donor registration, blood-type-based search, emergency request handling, and user notifications. Aimed at solving real-life access challenges during medical emergencies.

## **Professional Certifications**

- **Data Structures & Algorithms – PW Decode 2.0**  
Completed intensive training on core DSA topics including arrays, trees, graphs, recursion, and sorting.
- **Android App Development Internship – Imarticus Learning**  
Hands-on experience with Java, Kotlin, Retrofit, SQLite, and XML in real-world Android projects.
- **Aptitude Challenge Certificate – Code2Career by Lets Code Community**  
Participated in national-level aptitude testing, benchmarking problem-solving and logical reasoning.
- **Bits and Bytes of Computer Networking – Coursera (Google)**  
Gained understanding of networking fundamentals including DNS, IP addressing, and OSI model layers.
- **Java Programming – Vityarthi**  
Covered Java fundamentals, object-oriented concepts, exception handling, and basic GUI applications.
- **Python Programming – Vityarthi**  
Learned Python syntax, data types, control structures, file handling, and basic libraries.

- **Artificial Intelligence & Machine Learning (AI/ML)** – Vityarthi  
Introduction to AI/ML concepts including supervised vs. unsupervised learning, model building, and evaluation.
- **Web Development** – Udemyl  
Built responsive websites using HTML, CSS, JavaScript, and Bootstrap. Covered frontend development best practices and project deployment.

## Achievements & Participation

- Participated in over **20+ competitions** on **Unstop**, including case challenges, coding contests, and ideathons — showcasing consistency, initiative, and a strong learning mindset.
- Participated in **SRIJN**, the flagship innovation and entrepreneurship festival organized by **RGPV Bhopal**, demonstrating creative thinking and problem-solving in a competitive environment.

## Personal Profile

- Computer Science undergraduate (B.Tech, VIT Bhopal) with a strong interest in Android development, web technologies, and machine learning
- Consistently motivated and goal-oriented with a strong sense of discipline and self-confidence
- Quick learner who adapts rapidly to new tools, technologies, and coding environments
- Known for a smart working approach and problem-solving mindset in both individual and team-based projects
- Actively involved in tech events, hackathons, and online competitions on platforms like Unstop
- Strong communication skills and a passion for continuous learning and innovation in the tech space

## Strengths

- Positive mindset with strong self-discipline
- Smart working approach to solve problems efficiently
- Quick learner with adaptability to new tools and technologies
- Confident communicator and proactive team contributor

**Declaration**

I hereby declare that the information provided above is true and correct to the best of my knowledge.