

Harsh Sabharwal

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B.Tech in Computer Science and Engineering

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EDUCATION

• VIT Bhopal University

B.Tech — Computer Science and Engineering (CGPA 8.77/10)

2022–2026

• Sachdeva Public School, Delhi

CBSE — Class XII (PCM) 83.4%

2022

• Sachdeva Public Schools, Delhi

CBSE — Class X 87.2%

2020

SELECTED PROJECTS

• Project on Real-Time Breast Cancer Detection System using RNA sequence data

Random Forest • XGBoost • CNN

2025

- Developing an advanced AI/ML system to provide early and real-time detection of breast cancer by analyzing RNA sequencing (RNA-Seq) data.
- Aiming to significantly improve diagnostic accuracy over traditional methods like mammograms by identifying and leveraging subtle gene expression patterns indicative of cancer.
- Currently in the process of training and validating multiple models to achieve the highest possible precision and recall.

• Real-Time Potato Disease detection using FBEWT and customized VGG

2024

FBEWT • VGG16/19 • Random Forest

- Engineered a novel hybrid model for accurate potato disease detection by combining Flexible Block Extended Wavelet Transform (FBEWT) signal features with VGG deep learning embeddings.
- Trained and tested the model on a dataset of over 2,152 images, achieving a high classification accuracy of 94%.
- Validated the model's performance and robustness using ROC curves and Violin plots, confirming its effectiveness for real-world agricultural applications.

• Smart Canteen: QR-Enabled Food Ordering System

2025

Kotlin • Firebase • ZXing • Razorpay

- Developed a comprehensive Android food ordering system using Kotlin, featuring separate applications for users and administrators to streamline the canteen process.
- Integrated the Razorpay payment gateway to enable secure and seamless in-app payments, supporting various methods like UPI, credit/debit cards, and net banking.
- Engineered a secure, contactless order verification system by integrating the ZXing library to generate a unique QR code for each paid order.
- Leveraged the Firebase Suite (Firestore, Authentication, Cloud Functions, FCM) to manage real-time data, user authentication, and push notifications for order status updates.

TECHNICAL SKILLS

- **Languages:** Proficient in **Java, Kotlin and SQL**
- **Frameworks & Libraries:** Scikit-learn, TensorFlow, Keras, PyTorch, Pandas, NumPy, Matplotlib, Seaborn
- **Tools:** Android Studio, Git & Github, Jupyter Notebook, OpenCV
- **Databases & Cloud:** Firebase , MySQL

ACHIEVEMENTS & CERTIFICATIONS

- **LeetCode** — 300+ Problems Solved: Regularly practice DSA problems.
- **Top 2%** — NPTEL Marketing Analytics: Achieved distinction in a nationwide certification, demonstrating proficiency in statistical modeling, regression analysis, and data interpretation for marketing applications.
- **Certifications** — IBM Generative AI (2025), The Bits and Bytes of Computer Networking (Google)