Harsh Sabharwal

Delhi, India
B.Tech in Computer Science and Engineering

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EDUCATION

- **VIT Bhopal University**
  B.Tech — Computer Science and Engineering (CGPA 8.63/10) — 2022–2026

- **Sachdeva Public School, Delhi**
  ISC — Class XII (PCM) 83.4% — 2022

- **Sachdeva Public Schools, Delhi**
  ICSE — Class X 87.2% — 2020

SELECTED PROJECTS

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

  • *Random Forest • XGBoost • CNN* — 2025

  Designed and developed a machine learning pipeline to predict early-stage breast cancer using high-dimensional RNA sequencing data. Improved diagnostic accuracy over traditional techniques (such as mammograms and biopsies) by focusing on key gene expression patterns.

  Applied data normalization, feature selection, and ensemble methods to boost precision and recall. Simulated performance with cross-validation and ROC analysis to ensure robustness.

- **Real-Time Potato Disease detection using FBEWT and customized VGG**   *Published — MAI Conf.*

  FBEWT • VGG16/19 • Random Forest
  2025

  Engineered a hybrid model by combining feature-rich FBEWT transformations with deep VGG embeddings to detect multiple potato leaf diseases. Achieved classification accuracy of 94% on a curated dataset of 2152 plant images.

  Evaluated results using ROC curves and violin plots; model and analysis were peer-reviewed and published in an international conference. Contributed to dataset preprocessing, model tuning, visualization, and final manuscript preparation

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TECHNICAL SKILLS

- **Programming Languages:** Proficient in **Java** and **SQL**; familiar with Python (for ML applications)

- **Machine Learning & AI:** Hands-on experience with Time-Series Analysis, Computer Vision, Natural Language Processing, and Transfer Learning frameworks

- **Tools & Libraries:** Skilled with Git version control, Docker containerization, OpenCV for vision tasks, and Jupyter Notebooks for experimentation

- **Development Practices:** Follow Agile principles, use unit testing, and version control regularly in collaborative environments

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CERTIFICATIONS

IBM GEN-AI 2025
AWS SOLUTIONS ARCHITECT
THE BITS AND BYTES OF COMPUTER NETWORKING

ACHIEVEMENTS

- **LeetCode – 150+ Problems Solved:** Regularly practice DSA problems focusing on Arrays, Strings, Linked List and HashMap.

- **Top 2%** – NPTEL Marketing Analytics: Achieved distinction in a nationwide certification, demonstrating proficiency in statistical modeling, regression analysis, and data interpretation for marketing applications.