

DHARAMBIR SINGH SIDHU

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Professional Summary

Software engineer with expertise in Python, Java, SQL, and Data Science. Proficient in Machine Learning and Deep Learning, with a strong foundation in Data Structures and Algorithms. Experienced in developing scalable and optimized Machine Learning models. Committed to leveraging technology for impactful solutions using my Data Analytical skills.

Education

VIT Bhopal University, Bhopal, Madhya Pradesh

Bachelor of Technology (B.Tech) in Computer Science | Expected May 2026 | GPA: 9.02/10.0

Delhi Public School, Bathinda, Punjab

Class 12 – CBSE | June 2022 | Percentage: 95.20%

Euro International School, Uchiyarda, Rajasthan

Class 10 – CBSE | May 2020 | Percentage: 93.80%

Projects

Detecting Deception: Hybrid Deepfake Detection Model

- Built a hybrid model using DenseNet121 CNN and entropy analysis, achieving 99.41% accuracy on a 140,000-image dataset, outperforming baseline CNNs by 1.91%.
- Reduced error rates by 71% (FDR: 3.96% to 1.13%) using TensorFlow, OpenCV, and attention mechanisms for robust feature extraction.

Krishniti AI - Sustainable Farming AI System

- Engineered a multi-agent AI system using Python, Scikit-learn, and SQLite; utilized Random Forest Regressor to predict crop yields with 96% accuracy and inform sustainable farming decisions.
- Integrated predictive analytics and modular OOP design to optimize sustainable farming decisions.
- Designed a normalized SQLite database with optimized queries and conducted statistical analysis (95% CI, ± 0.13 variance) to reduce fertilizer and pesticide usage by 18%, enhancing eco-friendly agricultural practices globally.

Skills

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|--------------------|------------------------------|
| • Python | • Data Science |
| • Java | • Data Visualization |
| • Machine Learning | • SQL |
| • Deep Learning | • Statistics and Probability |
| • Data Analytics | |

Certifications

- Problem Solvers- Mastering Data Structures and Algorithms, FACE Prep, April 2025
- Marketing Analytics (Elite Certificate), NPTEL, May 2025
- Cloud Computing (Elite Gold Certificate – Top 1%), NPTEL, May 2024

Achievements

- Ranked top 10 in CodeClash – IEEE TEMS, VIT Vellore
- Achieved 21st rank in the intra-college chess competition, among 200+ participants

Extracurricular Activities

- Active member of Microsoft club at VIT Bhopal University
- Creating artworks, content creation, and graphic design