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 optimised 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.
- Optimized inference time by 15% via hyperparameter tuning, enhancing real-time deepfake detection reliability.

Krishniti AI - Sustainable Farming AI System

- Engineered a multi-agent AI system using Python, Scikit-learn, and SQLite, leveraging Random Forest Regressor to predict crop yields with 96% accuracy, integrating 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

- Python
- Java
- Machine Learning
- Deep Learning
- Data Analytics

- Data Science
- Data Visualization
- SQL
- Statistics and Probability

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

- · Creating artworks, content creation, and graphic design
- · Playing cricket and chess