CHARU GARG

Computer Engineering Student | Data Science & ML Enthusiast | Software Developer

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in linkedin | ⚙ github | </> LeetCode

EDUCATION

Thapar Institute of Engineering & Technology — Patiala, Punjab
Bachelor of Engineering, Computer Engineering; CGPA: 8.51/10 — *Aug 2022 – Jun 2026*
- **Coursework:** Data Structures & Algorithms, Machine Learning, DBMS, Operating Systems, Computer Networks

Shivalik Public School — Tapa, Punjab
Senior Secondary (XII), CBSE Board; Percentage: 91.6% — *2020 – 2021*

EXPERIENCE

Business Analysis Virtual Intern — May 2025 – Jun 2025
Deloitte Forage — *Remote*
- Conducted market research across **5+ industry verticals**, delivering strategic recommendations for **3 client business cases**
- Analyzed **50,000+ data points** using Excel and statistical techniques, identifying key market trends and competitive insights
- Collaborated with **15+ global team members** to deliver project deliverables with **100% on-time completion rate**

TECHNICAL PROJECTS

Employee Analytics Dashboard | Business Intelligence | GitHub — Jul 2025
- Analyzed **90 days** workforce data for **200+ employees**, building **8 interactive Power BI dashboards** with custom DAX
- Delivered insights reducing resource allocation inefficiencies by **25%** and created automated weekly reporting system

Sports Person Classifier | ML & Computer Vision | GitHub — May – Jun 2025
- Engineered celebrity classification system processing **2,176 images** using OpenCV and SVM, achieving **92% accuracy**
- Implemented Wavelet transform feature engineering extracting **4,096 dimensional features** per image with GridSearchCV tuning
- Deployed real-time Flask web application with **sub-second response time** for image uploads and classification

Pizza Sales Analysis | SQL & Data Analytics | GitHub — Mar – Apr 2025
- Executed **25+ complex MySQL queries** with JOINs and window functions on **48,000+ transaction records**
- Built Power BI dashboard revealing **15% revenue growth** in Q4 and optimized queries reducing execution time by **60%**

Plant Disease Detection | Deep Learning CNN | GitHub — Jun 2024
- Built CNN with **6 convolutional layers** processing **2,176 potato leaf images** at 256x256 resolution, achieving **98% accuracy**
- Applied data augmentation increasing dataset by **300%** and early stopping reducing validation loss by **40%**
- Optimized training achieving model convergence in **24 epochs**, reducing training time by **40%**

TECHNICAL SKILLS

Programming: Python, C++, C, MATLAB, SQL, PL/SQL, HTML5, CSS3
ML & Data Science: Deep Learning, TensorFlow, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, OpenCV, NLTK, PySpark, BeautifulSoup
Databases & Tools: MySQL, Oracle SQL, Power BI, Excel, Git, GitHub, VS Code
Frameworks: Flask, Jupyter, Google Colab

CERTIFICATIONS & ACHIEVEMENTS

Professional Development & Technical Accomplishments

- **JPMorgan Chase Quantitative Research Job Simulation:** Financial modeling and risk analysis (Apr 2025)
- **Data Visualization with Power BI:** Coursera Professional Certificate (Feb 2025)
- **Competitive Programming:** Solved **170+ algorithmic problems** on LeetCode, focusing on data structures and algorithms including trees, graphs, dynamic programming, and recursion.
- **Open Source:** Active GitHub contributor with **12+ ML repositories** and **25+ monthly commits**
- **University Technical Society:** Member of Computer Science Society, mentoring junior students in programming