# NISHANTKUMAR GUPTA

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Leetcode | Codechef | Codeforces | Linkedin | Github

## Education

**Pimpri Chinchwad College of Engineering, Pune** **2022 - 2026**
- Bachelor of Technology in Computer Engineering | CGPA: **8/10**

**Pimpri Chinchwad College of Engineering, Pune** **2024 - 2026**
- Honors in Deep Learning | CGPA: **9.4/10**

## Skills

**Languages & Tools**: C | C++ | Python | JavaScript | SQL | Git | Databricks | Airflow | AWS | VSCode

**Stack & Framework**: Pandas | NumPy | Tensorflow | PySpark | MongoDB | MERN | NextJs

**Concepts**: Machine Learning | Deep Learning | Model Evaluation | DBMS | OOP | DSA

## Experience

**Data Science Intern - Data Axle:** **Jun 25 - Aug 25**
- Delivered **20+ AI/ML** models for optimizing campaign targeting, donor prediction, and segmentation workflows.
- Automated **data segregation and aggregation workflows** (previously Excel-based), reducing manual effort by **80% in data-aggregation steps** and saving time during ensemble models campaign cycles.
- **Refactored legacy fallback logic** for model selection when primary models failed, reducing triage and re-run effort by **60%** and ensuring smoother model handoffs across pipelines.

## Projects

**Conditional Cervical Cell Synthesis Model using GANs:** **Feb 25**
*Developed a Conditional Cervical Cell Synthesis Model using **DC-GANs (Generative Adversarial Networks)**.*
- Developed a **Cell GAN model with a discriminator and synthesizer** to generate a combination of synthetic cytopathological images of 4 different classes of cervical cells, trained the model on **Mendeley and Malhari dataset**.
- Applied different **data preprocessing** steps for **combining both the datasets** and trained it on GPU using libraries like **PyTorch** and **Pandas**.

**BDI Enhancement:** **Oct 24**
*Used **Machine Learning** technique to identify key predictive questions in Beck's Depression Inventory.*
- Developed a **Decision Support System** to enhance depression assessment by analyzing the Beck Depression Inventory dataset.
- Used **XGBoost and SHAP** to analyze question weightage, identify key contributors to depression severity, and built a model achieving an **RMSE of 1.403 and an $R^2$ score of 0.981**.

**Helping Bridge - Crowdsourced Disaster Relief Platform :** **Mar 25**
*Developed a **full-stack web application with ML integration** enabling users to report disasters, request aid, and coordinate with volunteers and NGOs in real time, with features like geolocation-based reporting, urgent aid tagging, and resource matching.*
- Built the frontend using **React.js**, **Tailwind CSS** to create a responsive, interactive, and accessible user interface along with use of **Random Forest** for tracking disaster severity.
- Developed a robust backend with **Node.js**, **Express.js**, and **MongoDB**, implementing real-time data handling, role-based access for volunteers and NGOs, and an interactive map dashboard for disaster tracking.

## Technical Achievements

- **Pupil on Codeforces** | Top 3 Among Active Users in College with Max Rating of **1393**.
- **3 Star on CodeChef** | Achieved a Max Rating of **1619**.
- **LeetCode Max Rating: 1786** | Ranked in the **top 10% globally**, solving **650+ DSA problems in C++** across various coding platforms.
- **Meta HackerCup'24** | Ranked top 5000 Globally with a Rank of 4895.

## Certifications and Courses

- **Python for Data Science -** Databricks
- **Deep Learning for Visual Computing** – NPTEL, IIT Kharagpur
- **Artificial Intelligence** – C-DAC
- **Complete Modern C++** – Udemy