Chetan Raghunath Suralkar

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Education

Degree/Certificate	Institute/Board	CGPA/%	Year
MCA	P. O. Nahata College, Bhusawal, Jalgaon	7.75 CGPA	2022–2024
BCA	P. O. Nahata College, Bhusawal, Jalgaon	9.5 CGPA	2019–2022
Diploma	P. C. Polytechnic, Nigdi, Pune	57%	2014–2018
Class 10 (SSC)	St. Mary's Convent High School, Durgapur	76.6%	2013–2014

Experience

- **Academic Project Work** *2022*
  Railway Reservation System — research, analysis, and testing.
  – Analyzed core flows (search, booking, cancellation) and drafted test scenarios with expected outcomes.
- **Independent Study** *2024–Present*
  Python data handling and visualization practice.
  – Built small Jupyter notebooks for CSV loading, cleaning, and simple charts; saved reusable snippets.
- **Personal Projects** *2021–2023*
  Unity-based interactive modules (C#).
  – Created interactive scenes with UI, scoring, and basic physics; implemented event-driven scripts.

Projects

City Sandbox Prototype *Unity, C#*
- Built an interactive city scene with districts, roads, POIs; added clickable markers and compact panels.
- Implemented toggle overlays (day/night, activity) to compare layouts and visualize planning trade-offs.

City Concepts Notebook (Exploratory) *Python, Jupyter, Matplotlib, Pandas*
- Collected concept lists (district types, amenities, paths) and sketched maps to reason about layout density and neighborhood connections.
- Wrote short notes with figures to compare design alternatives from a usability and activity perspective.

3D Game (Unity) *C# and Visual Scripting*
- Developed core gameplay, multi-scene flow, and UI using Unity and C#; managed assets and simple physics interactions.

Railway Reservation System *Academic — requirements and testing*
- Documented workflows (search, booking, cancellation, availability) and prepared test cases for validation.

Generative Models Practice *Python, Jupyter, PyTorch/Keras*
- Implemented and trained GANs on CelebA and MNIST for face generation, attribute transfer, CycleGAN image translation, and handwritten digit recognition.

Particle Event Classification (Notebook) *Python, Jupyter*
- Built a training/evaluation pipeline for a gamma–hadron dataset; focused on preprocessing and simple metrics.

CRDI (Common Rail Direct Injection) System *Diploma final-year project*
- Summarized components, control, and diagnostics; presented observations on efficiency and system behavior.

Technical Skills

- **Programming**: Python, C#
- **Notebooks & Data**: Jupyter Notebook, Pandas (CSV handling), Matplotlib (basic charts)
- **Machine Learning (basics)**: scikit-learn (LogisticRegression, IsolationForest); simple train/validate
- **Web Basics**: HTML, CSS, Bootstrap; simple portfolio pages
- **Game/Interactive**: Unity3D (C#), Blender (basic modeling/layouts)
- **IT Support**: Hardware/Software troubleshooting, OS installation and Partition Management

Achievements

- **BCA Performance**, 10 CGPA (2nd Year), 9.5 CGPA (Final Year)
- **MCACET**, 79 Percentile
- **GameJam Competition**, Secured 3rd Rank
- **Automotive Design Competition**, Participated (Diploma)
- **Certificate Course**, Hardware and Networking