



# Chetan Raghunath Suralkar

Date of Birth: 17-06-1998

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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