

Education

Degree	Institution	CPI/%	Year
M.Tech	Indian Institute of Technology Gandhinagar	9.08	2024 – 2026
B.Tech	Veer Surendra Sai University of Technology (VSSUT), Burla	9.31	2020 – 2024
Class XII	Mother's Public School, Bhubaneswar	93.2%	2018 – 2020
Class X	Ruchika High School, Bhubaneswar	92.67%	2005 – 2018

Relevant Coursework

UG: Geotechnical Engineering I (B+), Geotechnical Engineering II (O), Transportation Engineering I (O), Transportation Engineering II (O), Reinforced Concrete Design (O), Structural Analysis I (A)

PG: Advanced Geotechnical Engineering (A), Geosynthetics (B), Pavement Materials and Design (A-), Analysis and Design of Foundation Systems (A-)

Internships

- **Indian Institute of Technology Kanpur** — SURGE Summer Intern
Stability Analysis of Tunnel in Weak Rock Mass | May – July 2023
Worked on finite element analysis using Phase2 software to evaluate stresses and displacements around underground openings.
- **Directorate of Designs, Office of the Engineer-in-Chief (Civil), Odisha**
Design of G+1 Building with Reinforcement Detailing | May – July 2022
Performed load analysis and structural design using STAAD.Pro.

Projects

- **Dynamic Rutting Analysis of Geosynthetic-Reinforced Pavements** | Jun 2025 – Present
Studying rutting behaviour of flexible pavements under cyclic loading with emphasis on geosynthetic reinforcement.
- **Finite Element Analysis of 3D Consolidation in Clayey Soil with Vertical Sand Drains** | Jan 2025 – Apr 2025
Evaluated settlement and degree of consolidation using analytical and FEM approaches.
- **Design of Flexible Pavement for 4-Lane Expressway** | Jan 2025 – Mar 2025
Conducted comparative study on geogrid reinforcement effects on pavement thickness and cost using IITPAVE.
- **Analysis and Prediction of Tunnel Displacement using FEM and ML Techniques** | Aug 2023 – Apr 2024
Applied ML models including XGBoost, Random Forest, Fourier Regression, and KNN for tunnel behaviour prediction.

Positions of Responsibility

- Quizzer, Quizzine Society, VSSUT Burla | Jul 2021 – Apr 2024
- Vice-Captain & Captain, Ruchika High School | Apr 2016 – Apr 2018

Achievements

- University Gold Medallist and recipient of multiple academic excellence medals, VSSUT Burla (2024)
- Awarded Visweswaraya Pratiba Puraskar 2023 for technological excellence
- Awarded Ansys Fellowship

Skills

Languages: Python, C, C++, MATLAB, Java, HTML

Tools: Abaqus, GeoStudio, IITPAVE, Geo5, SAP2000, Ansys