

# John Smith

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## Professional Summary

Detail-oriented Civil Engineering graduate with hands-on experience in structural analysis, design tools, and data analysis. Skilled in applying engineering principles, Python programming, and project management to solve real-world infrastructure problems. Passionate about leveraging technology such as BIM, GIS, and data-driven approaches to enhance efficiency in construction and design.

## Education

### National Institute of Technology, Warangal

B.Tech – Civil Engineering | 2020 – 2024

CGPA: 8.2/10

Relevant Coursework: Structural Analysis, Geotechnical Engineering, Data Analysis, Project Management

## Technical Skills

**Programming & Tools:** Python, C++, Excel, AutoCAD, SAP2000

**Civil Engineering Software:** STAAD.Pro (beginner), Revit (learning)

**Data & Analysis:** Data Visualization, Statistical Analysis, GIS (QGIS basics)

**Soft Skills:** Project Management, Team Collaboration, Problem Solving

## Work Experience

### Intern – Structural Analysis | XYZ Constructions, Bangalore

May 2023 – Aug 2023

- Designed residential building layouts and performed load distribution analysis using SAP2000.
- Optimized material usage, reducing structural costs by **12%**.
- Prepared detailed structural drawings using AutoCAD for client approval.

## Projects

### Load Optimization in Multi-Storey Buildings

- Applied structural analysis techniques to improve load distribution efficiency.
- Reduced material usage by **8%** through optimized design.
- Tools: SAP2000, AutoCAD

### Credit Card Fraud Detection (Academic Project)

- Built ML models in Python for anomaly detection, improving accuracy by **15%**.
- Compared algorithms using metrics like ROC-AUC and precision/recall.
- Tools: Python, Jupyter Notebook, Pandas, Scikit-learn

## Certifications

- AutoCAD Civil 3D – Autodesk (2023)
- Basics of Project Management – Coursera (2023)
- Python for Data Science – NPTEL (2022)

## Achievements

- Silver Medalist – International Mathematics Olympiad (2018)
- Academic Excellence Award – NIT Warangal (Top 10% of batch)