



ROSHAN SINGH

SR. ENGINEERING ANALYST

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EDUCATION

2019-2021

IIT MADRAS

- M.Tech in Ocean Technology
- 🏆 Prof K A V Pandalai Prize (Silver Medal) for academic performance.

2014-2021

KIET INSTITUTE OF TECHNOLOGY,
GHAZIABAD

- B.Tech in Mechanical Engineering
- Graduated with High Honors

2012-2013

12TH, SCIENCE, KENDRIYA

VIDYALAYA NO.1, ARMY, JODHPUR

- 🏆 Certificate of Merit for outstanding academic performance, ranking in the top 0.1% in Physics (All India SR. SCH Certification 2013)

SKILLS

- Orcaflex, Uflex
- Microsoft Excel
- Python, MATLAB, AI/ML/DL
- Time Management
- Data Visualization
- Effective Communication
- Critical Thinking

PROFILE

A results-driven Engineer with 3 years of experience in the renewable and oil & energy sector, constantly learning and expanding my expertise. Specializing in automation and AI-driven solutions, I have optimized Orcaflex (Extreme & Fatigue Analysis) and Uflex (Local Analysis), saving one week per project through automation. Currently working on Orcaflex automation, leveraging Python, MATLAB, and Orcaflex API to streamline complex analyses. My MATLAB-based tools and a widely used app at Oceaneering have enhanced team productivity. Recognized with the Excellence Award, I thrive on innovation, automation, and continuously broadening my mindset.

WORK EXPERIENCE

● Sr. Engineering Analyst, Oceaneering, Chandigarh

Engineering Analyst | Oceaneering International (2022 - Present)

- Specialized in Local & Global Analysis using Uflex and Orcaflex, contributing to offshore engineering simulations.
- Automated analyses, saving ~2,600 hours and enhancing team efficiency.
- Developed & enhanced the MATLAB-based OptiMum tool, adopted globally.
- Implemented ML-driven crush prediction, reducing analysis time from two weeks to 20 seconds.
- Received the Excellence Award for automation, innovation, and efficiency.
- Visited Scotland, Rosyth to advance the knowledge of industries, OptiMum tool and automation strategies.
- Integrating AI & LLMs into engineering workflows for continuous improvement.
- Proficient in transforming Excel reports into interactive PowerPoint presentations.
- Consistently rated highly by management for three years.
- Passionate about AI, ML, optimization, and automation, actively contributing across teams.

HOBBIES

🎨 Painting | 💪 Fitness Training | 🎵 Music | ✈️ Traveling | 🎬 Movies

🔄 Continuous learning—exploring new skills like cooking, video editing, and evolving interests over time.