

# SAI VIVEK ADARI

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## GEOTECHNICAL ENGINEER

A trustworthy, reliable graduate who has a genuine interest in research work. I'm an aspirer, inspirer and a conqueror who is always on a quest of newly emerging techniques in the field of Geo-Technical Engineering and love challenges in the field as well.

### Research Interests:

- Soil Dynamics, Wave Propagation
- Geophysical Investigation
- Ground Improvement
- Micro Mechanics
- Coupled DEM-FEM

## ACADEMIC DETAILS

- **Indian Institute of Technology (IIT), Madras**  
Aug'21 – till date | Ph.D. in Civil Engineering
- **Indian Institute of Science (IISc), Bangalore**  
Aug'16 – Jul'18 | M. Tech in Geotechnical Engineering
- **University College of Engineering Kakinada, JNTUK Kakinada**  
Sep'12 – Apr'16 | B. Tech in Civil Engineering
- **Sri Chaitanya Junior College, Visakhapatnam**  
Jun'10 – May'12 | Intermediate
- **Pragati Little Public School, Samalkot**  
Jun'09 – Mar'10 | SSC

## WORK EXPERIENCE

**March'21 – July'21**     **Indian Institute of Technology, Gandhinagar (IITGN)** as Senior Research Fellow (Geotechnical Engineering)

- Design and analysis of foundation system for onshore wind turbines
- Strengthening of the Indian railway approach bridges (Delhi- Mumbai route) by the usage of Geocells.

**July'18 – August'20**     **Larsen & Toubro Constructions, Chennai, India** as Sr. Design Engineer (Geotechnical)

- Management of design & engineering activities (geotechnical) in major EPC project life cycle from Pre-BID design stage to as-built stage.
- Completed the Design management of Various Hospital Projects, Road Projects, Commercial Buildings, Airports and Special Projects
- Received a letter of appreciation from M/s Mott Macdonald for designing Stone Columns for Assam Cancer Care Hospitals
- Articles on ground improvement and Short Piles in L&T's monthly magazine.
- Saved more than 100 Million INR in geotechnical designs alone.
- List of works done as a Senior Design Engineer:
  - Preparation of Bill of Quantities for Geotechnical Items
  - Preparation of Technical Specifications, Special Method Statements & Standard Design Procedures
  - Optimal Design of Foundation Systems
  - Design of Grade Slab, Pavements (Rigid, Flexible, Paver Blocks for low volume roads)
  - Preparation of Foundation recommendation report based on Soil investigation report for tender and operating projects
  - Design of Stone Columns, Sand Compaction pile and Execution Monitoring from Head Office
  - Evaluation of Liquefaction potential in sandy strata
  - Design of deep soil mixing to improve the safe bearing capacity
  - Improve slope stability using Jet Grouted Columns
  - Design of Shoring system in PLAXIS software
  - Slope Stability analysis in TALREN software
  - Lateral Pile Capacities using LPILE & PIGLET Software
  - Getting Design Approved from Independent proof checking agencies
  - Value Engineering
  - Procuring latest design tools like – PIGLET, APILE, DC-Vibro to manage various pre-BID & Post BID designs

**August'17 – March'20 Lead Institute of Academics, Tirupati, India** as Content Developer (weekends)

- Preparation of Content on Steel Structures and Structural Analysis for GATE Examination and Engineering Services Examination in more understandable manner
- Own Solved Examples on Geotechnical and Structural Analysis for ESE and GATE

#### MEMBERSHIPS

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- Member of Earthquake Engineering Research Institute (EERI)
- Member of American Society of Civil Engineers (ASCE)
- Member of ISSMGE

#### IT PROFICIENCY

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- MATLAB
- ABAQUS, PLAXIS
- APILE, LPILE, PIGLET
- Talren, DC- Vibro, Slope W, Rocscience, Geoscience
- Auto CAD, STAAD Pro, C

## SCHOLARSHIPS/ ACCOMPLISHMENTS

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- Central Sector Scholarship (MHRD, INDIA) Scholarship for the years 2012-16.
- Ministry of Human Resource Development (MHRD, INDIA) Scholarship for the years 2016-18.
- Scored 99.47 percentile in Graduate Aptitude Test in Engineering for the year 2016.