

MEDA BALA NAGA MANIKANTA

Gender: Male

Linguistic Proficiency: Telugu, English and Hindi

Ph.D – Environmental Engineering

Date of Birth: 18/10/1996

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Educational Qualification:

Degree/ Examination	Year of Passing	School/Institute	Board/University	Percentage/ CGPA
M.Tech	2021	National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli	8.68
B.Tech (Civil Engineering)	2018	University College of Engineering, Kakinada	Jawaharlal Nehru Technological University, Kakinada	77.19%
Class XII	2014	NRI Junior Kalasala, Medikonduru, Guntur	Board of Intermediate Education, A.P.	95.50%
Class X	2012	Sri Vani Vidyanikethan, Kothapatnam	Board of Secondary Education, A.P.	9.5

Project Work/ Internship Experience

- **PG Project – Temporal Variation Analysis and Forecasting of Air Pollutants and Modelling of Ground Level Ozone Formation over the cities of Bangalore and New Delhi** *July 2020 – June 2020*
 - Analysis of Temporal Variations in the air pollution over the regions of Bangalore and New Delhi.
 - Forecasting of the various air pollutant concentrations for future with Data Analytics tool R-language using Machine Learning(ML) techniques.
 - Development of Artificial Neural Networks(ANN) by Artificial Intelligence(AI) & Multiple Linear Regression models for prediction of Ground Level Ozone formation with various inputs like NO_x, VOCs and various meteorological parameters.
 - Sensitivity Analysis is conducted to find the role played each and every parameters involved in the modelling of Tropospheric Ozone formation.
- **PG Mini Project – A study on Air Pollution and its Control from Coal fired Thermal Powerplants with a case study of Rayalaseema Thermal Powerplant** *Feb 2020 – May 2020*
 - A detailed study with cradle to grave analysis how air pollution is caused by a coal fired thermal powerplants and mitigation measures to be taken using a case study with 1650 MW coal fired thermal powerplant at Rayalaseema maintained by APGENCO.
- **UG Project – Project based on Arc GIS software** *Jan 2018 – May 2018*
 - Computation of average precipitation of Kakinada and Peddapuram divisions of East Godavari districts using Arc GIS software.
 - Average precipitation is found using different methods viz., Isohyetal method, Thiessen polygon method and Inverse distance weightage methods and drawn respective maps in Arc GIS software.

- **Internship at Polavaram Project**

May 2017

- Learnt details of the Polavaram project like Geotechnical aspects, Water resource aspects and structural aspects of the Dam.

Areas of Interest:

- Aerosol Chemistry and Modelling
- Air Pollution and Control Engineering
- Modelling of Natural Systems

Technical Skills:

- Programming Languages : Basics in C, R
- Engineering Software : AutoCAD, Arc GIS
- Other Software : Microsoft Word, PowerPoint, Excel

Academic Achievements and Co-Curricular Activities:

- Got consolation prize in district wide school level talent test conducted by Little Champ's Academy.

Extracurricular Activities:

Positions of Responsibility:

- **Class Representative – M.Tech Environmental Engineering** *Sept 2019 - August 2021*
- **Chief Coordinator – Soudha 2K18** *Feb 2018*
 - Soudha 2K18 (National level technical symposium) conducted by students of Civil Engineering Department, JNTUK.
 - Served as one of the five chief coordinators of the fest in the year 2018.
 - Lead the teams of Publicity Design and Sponsorships.
- **Class Representative – B.Tech Civil Engineering** *Jan 2017 - May 2018*
- **Hostel Secretary – PSRV Hostel** *April 2017 – April 2018*
 - PSRV Hostel is a student-maintained hostel in Kakinada.
 - Conducted hostel meetings once in a month to resolve the hostel issues for smooth running of the hostel.
 - Organized all the cultural activities conducted in the hostel during that period.

Social Activities:

- Volunteered for Kakinada Municipal Corporation Elections 2017 as a web casting member.
- Participated in HIV Red Week, an awareness program on HIV awareness conducted by Rotract Club of Kakinada division in 2016.

Cultural Activities:

- Participated in Chinmaya Bhagavad-Gita Chanting Competition in 2009.
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