# Samanyu Raju Kakarlapudi

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## EDUCATION

**MS: Analytics,** University of Southern California (USC), Los Angeles, US.           August 2021-May 2023
Coursework: Linear Modeling, Multivariate Analysis, Data Sampling and Processing, Optimization Methods,           GPA – 3.66
Fraud Analytics, Data Analytics Consulting, Data Mining, Predictive Analytics.

**B. Tech: Production and Industrial Engineering,** Vellore Institute of Technology, Vellore, India.           June 2016-June 2020
Coursework: Engineering Statistics and Calculus, Operations Research, Total Quality Management.           GPA – 3.4

## SKILLS

- Data visualization using Tableau and Power BI
- Database management using SQL and Excel
- Statistical data analysis using Python and R
- Computer Aided Design

- Lean & Agile thinking
- Collaborative working
- Professional networking
- Creative problem solving

## WORK EXPERIENCE

**Course Producer (Teaching Assistant),**           August 2021-Present
Department of Industrial and Systems Engineering, USC.
- Courses managed:  Lean Operations, and Senior Year Design Project (Phase I and II).
- Executed duties: Content development, Assignment management, Query resolution, Team administration, Progress reporting.

**Design and Testing Intern,**           May 2019-June 2019
Mahle Anand Thermal Systems Private Limited, Pune, India.
- Designed a mechanical fixture for valve lever testing by engaging with senior executives, design engineers, and suppliers.
- Conducted data analysis in R&D department to develop and test next-generation Viscous clutches for enhanced performance.

## PROJECTS (Research Experience)

- **New York Property Tax Fraud Analysis,**
  Analyzed complex data sets with >1 million records for fraudulent data using autoencoder and principal component analysis.

- **Enhanced Analytical Kano Modeling Computation,**
  Integrated standardized Kano survey and A-Kano model using python programming for quantitative analyses of Kano model.

- **Circular Function Deployment,** [Publication link]
  Developed mathematical metrics to conduct customer analysis and implement tailored circular economy design strategies.

- **Credit card application fraud analysis,** [Ongoing]
  Building linear and nonlinear supervised machine learning algorithms to detect identity fraud in credit card applications.

## MINI PROJECT

- **House Prices - Advanced Regression Techniques,** Kaggle competition.
  Predicted sales price based on end-user behavioral data using feature engineering and gradient boosted decision trees.

## CERTIFICATIONS

- **Feature Engineering**. Certified by: Kaggle.
- **Python for Everybody Specialization.** Certified by: Coursera, University of Michigan.
- **Applied Plotting, Charting & Data Representation in Python.** Certified by: Coursera, University of Michigan.

## AWARDS

- **United Nations Global Compact powered IILM Sustainability Carnival, 2nd place:** A national-level design contest.
  Managed a team of three to present an alternative sustainable product concept and competed against 65 other national teams.

## ACTIVITIES

- **Event Organizer, Creativity Club. (Art and Crafts)**
  Planned, scheduled, and coordinated a four-day cultural competition during 2018's university annual fest.