**Valli Sri Lalita Eranki** (949)-302-3849 <https://github.com/Lalitaeranki> <https://lalitaeranki.github.io> <https://www.linkedin.com/in/lalitaeranki>

Irvine, CA Email:lalitaeranki@gmail.com

**Professional summary**-Data Scientist | Electrical Engineer |Data Analyst

An Electrical Engineer with newly acquired skills in data analytics seeking a full time or part time position as a Data Analysts. Excited to work for organization that offers professional growth while being resourceful, innovative and flexible.

# Data Analytics Skills

* **Languages:** Python, Pandas, NumPy,

PyMongo, Flask, R, MATLAB, C

* **Database:** SQL, MySQL, MongoDB
* **Web:**Bootstrap,JavaScript,AngularJS,

Typescript, HTML/CSS

* **Visualization Tools**: Matplotlib, D3.js,

Plotly.js, Leaflet, Gmaps, Tableau

* **Spreadsheets:** Excel, VBA, Tableau
* **Others:** GitHub, Heroku, ANN ,Hadoop,

PySpark

* Optimization tools, Machine Learning,

Scikit-learn,nltk,TensorFlow

* **Simulation Tools**: Simulink, PSIM

Electronics Simulation Software

* **Web Interfaces:**JSON,Beautiful Soup,

APIs

**Professional Experience**

* **Data Analytics & Visualization Bootcamp:** **(July 2018-Feb2019)**

[**Suicide Assessment and Analysis:**](https://github.com/Lalitaeranki/Suicide-Perspectives-Final)

The purpose of this project was to provide a website to assess suicide risk, predict the intent using Natural Language Processing and guide them to helpful resources.

Skills: Python, Flask, MongoDB, Beautiful Soup, Plotly, HTML, CSS, Bootstrap, JavaScript, Tweepy api,Tableau,d3.js,geomap,Skel,Jquery,Machine Learning tools scikit-learn,nltk.

[**Traffic-Violation-Analytics:**](https://github.com/Lalitaeranki/Traffice-Violation-Analysis)

The purpose of this project was to analyses whether the traffic stops and citations by Police is biased on Gender and Race in Pandas.

Skills: Pandas, Python, Jupyter Notebook, NumPy.

[**Belly Button Biodiversity:**](https://github.com/Lalitaeranki/Belly-Button-Bio-HW)

An interactive dashboard to investigate the microbes inhabiting our navels and the factors using Plotly.js.

Skills: Python, Pandas, Flask, SQLAlchemy, HTML, CSS, Bootstrap, JavaScript, Heroku.

[**Web Scraping-Mission to Mars:**](https://github.com/Lalitaeranki/Web_scraping)

Web application that scrapes various websites for data related to Mars and displays the information in a single HTML page.

Skills :Python, Flask, Jupyter Notebook, MongoDB, PyMongo, Pandas, Splinter, Beautiful Soup, HTML, CSS, Bootstrap, Heroku.

**CitiBike-**[**Tableau**](https://github.com/Lalitaeranki/Citibike-Tableau)**:**

An interactive Dashboard on Citi bike sharing program Tableau.

Skills: Python,Pandas, NumPy, Tableau

SQL-[sakila](https://github.com/Lalitaeranki/SQL-sakila):

Hands on SQL DB Learning using Sakila DB

Skills:SQL

[Learning Excel:](https://github.com/Lalitaeranki/Excel)

Using the Excel table provided, modify and analyze the data of four thousand past Kickstarter projects.

Skills:Excel

# Professional Experience

**Assistant Professor:** Aug 2004 – April 2013

Worked as assistant professor at Pune university, JNTU, Hyderabad, ICFAI University, Pt.RaviShankar Shukla University in India for Six years.

* Taught modelling and analysis Power Electronics, Electric Drives and Control, Electric Circuits, Power Systems Analysis, Electrical Machines and Basic Electrical engineering.
* Guided students in Technical report writing, digital magazine editor and student counselor.
* Designed teaching plan and structure for various courses.

# Education

**UC Irvine** 2018-2019

Certificate, The Data Science and Visualization Boot Camp

**Birla Institute of Technology MESRA, India** 2002-2004

Master of Engineering in POWER SYSTEMS

**Master’s Thesis**

**Reliability evaluation of committed units in conventional & fuzzy approach:**

In this one year thesis, a program in Matlab is developed for a probabilistic approach for hierarchical level-I reliability of unit commitment problem. With the proposed methods, uncertainties embedded in generation side are taken into account and then the reliability indices such as loss-of-load- probability and fuzzy loss-of-load-probability have been evaluated for a commitment period of 24-hours.

Skills: MATLAB 6.1, Simulink.

**B.I.T.DURG, PT.Ravishankar Shukla University,India** 1997-2001

Bachelor of Engineering in Electrical Engineering

**Awards**

Received EXCEL GOLD MEDAL from B.I.T.,DURG for securing highest percentage in Electrical Engineering. Branch for session 97-2001.

# Technical Paper

SOLUTION OF UNIT COMMITMENT USING MODIFIED GENETIC ALGORITHM CONSIDERING THE EFFECT OF UNIT OUTAGE UNCERTAINTY**-*Journal*** [*(203) International Journal of Power and Energy Systems - 2008*](http://www.actapress.com/Content_Of_Journal.aspx?JournalID=102)***.***