

# Valli Sri Lalita Eranki

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

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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

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- **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

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

### Suicide Assessment and Analysis:

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:

The purpose of this project was to analyse 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:

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:

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:

An interactive Dashboard on Citi bike sharing program Tableau.

Skills: Python, Pandas, NumPy, Tableau

### SQL-sakila:

Hands on SQL DB Learning using Sakila DB

Skills: SQL

### Learning Excel:

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

Skills: Excel

## Professional Experience

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### **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

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### **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

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

## Technical Paper

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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*** .