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**About Me**

Data Scientist| Electrical Engineer

Former Electrical Engineer with six years teaching experience in Electrical Engineering and a passionate Data Analyst. Seeking a full time or part time position to utilize newly acquired skills in Data Analytics and abilities in an organization that offers professional growth while being resourceful, innovative and flexible.

**Technical Skills**

* Languages: Python, Pandas, NumPy, PyMongo, Flask, R, MATLAB, C
* Database: SQL, MySQL, MongoDB
* Web: HTML 5, CSS, Bootstrap, JavaScript
* Visualization Tools: Matplotlib, D3.js, Plotly.js, Leaflet, Gmaps, Tableau
* Simulation Tools: Simulink, PSIM Electronics Simulation Software
* Web Interfaces: JSON, Beautiful Soup, APIs
* Spreadsheets: Excel, VBA, Tableau
* Others: Optimization tools, Machine Learning, GitHub, Heroku, ANN ,Hadoop,PySpark

**Projects**

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

An interactive website to assess suicide risk, awareness and study the suicide rates from countries all over the world.

Skills: Pandas, Python, Flask, MongoDB, Beautiful Soup, Plotly, HTML, CSS, Bootstrap, JavaScript, Heroku.

[**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

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

In this project , a program in Matlab is developed for a probabilistic approach for hierarchical level-I (HL-I) reliability of unit commitment problem (UC). With the proposed methods, uncertainties embedded in generation side are taken into account and then the reliability indices such as loss-of-load- probability (LOLP) and fuzzy loss-of-load-probability (FLOLP) have been evaluated. A short-term commitment period with a 24-hour time horizon is considered.

Skills: MATLAB 6.1, Simulink.

**Professional Experience**

GHRCEM (Pune, India) Aug-2010 – April 2013

* Lecturer in Electrical and Electronics Engineering Department.
* Subjects Taught: Power Electronics, Electric Drives and Control, Basic Electrical engineering.
* Taken Laboratory course in Electrical Machines Power Electronics, Electric Drives.

SNSIT (Hyderabad, India) Aug-2009 – Feb 2010

* Lecturer in Electrical and Electronics Engineering Department.
* Subjects Taught: Electric Circuits, Power Systems Analysis, Electrical Machines, Basic Electrical engineering
* Taken Laboratory course in Electrical Machines, Electrical Circuits, Networks

ICFAITECH (Hyderabad, India) May-2005 – August-2006

* Lecturer in Electrical and Electronics Engineering Department.
* Subjects Taught: Power Systems Analysis, Switchgear and Protection, Electrical Machines, Basic Electrical engineering
* Taken Laboratory course in Power System Analysis based on power world Simulator
* Guided students in presenting Technical Reports
* Handled Projects both short and long term in Matlab6.1.

Rungta College of Engineering. And Technology ( Bhilai, India) March-2002 –July-2002

* Lecturer in Electrical Engineering Department.
* Subjects Taught: Electrical Machines, Basic Electrical engineering, Network Synthesis
* Handled labs in Electrical Machines
* Short term projects in C.

**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

**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) ***.***