Siddarath Vats

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Education

Adani Institute Of Infrastructure Engineering

Ahmedabad, Gujarat

1st June 2021

Bachelor of Engineering in Electrical Engineering **CGPA** (on scale of 10) -8.4, **GPA** (on scale of 4) -3.4

Skills

Languages Python, R, MATLAB-2020a, Octave, SQL

Technologies

Supervised and unsupervised learning, deep learning algorithms, Web scraping, Big Query, Simulink, Latex, Version controlling,

Data Pre-processing

Frame-works Scikit-learn ,TensorFlow ,Keras, OpenCV, PyTorch, Selenium, Advance Pandas,

Sports Table Tennis, Cricket

Work Experience _____

Assistant Manager- Data Analytics at Adani Green Energy Ltd

Ahmedabad, Gujarat

ROLE: JUNIOR DATA ANALYST

13th july 2021 - Present

- Implemented a complete end to end applications which provides the detailed information of entire portfolio using python language as backend and Power-bi as front-end service. These applications are termed as 'Solar Portfolio' and 'Wind Portfolio'.
- Data extraction from several sources like xlsx, pdfs, json, websites, images, etc using comprehensive python scripts, which is Pre-processed and stored in SQL database and refreshed in various Power-Bi Dashboard at daily basis.
- · Performance monitoring of solar plants using advanced analytical algorithms like SVM, ANN, LSTM, etc.

Research Projects

Development of Smart Grid using ML algorithms

Ahmedabad, Gujarat

ROLE: SIMULATION ENGINEER AND DATA ANALYST

During Studies

- · Implemented a Custom Simulation of a hypothetical power system according to IEEE five bus standards in MATLAB-2015b
- The goal of simulation was to generate a time series data-set and obtain adequate number of clusters using KNN clustering which was then fed into supervised learning algorithms so they can distinguish between various power system abnormalities like power swing, line faults etc.

Fault Identification in WECS using supervised learning

Ahmedabad, Gujarat

ROLE: SIMULATION ENGINEER AND ML PROGRAMMER

During Studies

- Prepared and analyzed a custom simulation of Wind Power system system which mimics the behaviour of standalone DFIG WECS(Wind Energy Conversion System) of operational frequency at 60Hz and then data was extracted via Multi-Run.
- The final result were fed into 4 Machine learning algorithms, they were D-Tree, Logistic Regression, SVC, and KNN furthermore results were compared and examined in form of confusion matrices and graphs.

Data-driven Techniques to distinguish between Faults and Power swings

Ahmedabad, Gujarat

ROLE: HEAD RESEARCHER AND MENTOR

During Studies

- Reviewed all the existing technologies which can used to differentiate between three-phase faults and power swings.
- The review paper is successfully published in Nova Science Publishers.

link: https://novapublishers.com/shop/research-challenges-in-science-engineering-and-technology/

Industrial Projects

Development of real time dashboard for Deviation Settlement Mechanism

Ahmedabad, Gujarat

ROLE: LEAD DEVELOPER

Jan'23

- Our team created a custom dashboard which tracked and calculated real time DSM penalty for renewable power plants. The data is fetched via web-scrapping and comprehensive python scripts are used for data analysis and the same is stored in Big query and represented in Power BI dashboard.
- I was awarded with silver coin and spot recognition embarking my contribution for the development of dashboard