



# Vasu Bhadra Singh

## Data Scientist

Driven Data Scientist enthusiast ready to thrive in demanding digital intelligence processing environments. Well-informed on latest machine learning advancements. Ready to combine tireless hunger for new skills with desire to exploit cutting-edge data science technology.

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🌐 datablogger-ml.github.io

🔗 github.com/datablogger-ml

## EDUCATION

### BTech, Electronics and Communication Engineering

Vellore Institute of Technology

07/2016 - 07/2020

Courses

- CGPA - 8.13

### High School

Apeejay School , Noida

04/2015 - 04/2016

Courses

- Class X - 9.0/10

- Class XII - 92.4%

## WORK EXPERIENCE

### Data Science intern

Group Data Analytics, Aditya Birla Management

02/2020 - 07/2020

Bangalore

Achievements/Tasks

- Worked on coming up with analytical solutions for the SSOE Trading team for Crude Oil Forecasting.
- Assessed the effectiveness and accuracy of new data sources and data gathering techniques.
- Python based libraries for Forecasting, Natural Language Processing, Cloud analytics, GPU based computing etc.
- Developed various univariate Time Series (ARIMA) and multivariate (XgBoost, Random Forest) forecasting Models with Hyper-parameter tuning.
- Twitter Based News Analytics to find the market sentiment of crude oil for the next day.
- Helped achieve a Forecasting accuracy of 97% and a Directional accuracy of 55% for a test period of 5 months.
- Baseline Twitter Classifier model able to achieve an accuracy of 60% in correctly classifying the price change in Crude oil for each day.

## SKILLS

Python

HTML

Java

MySQL

Machine Learning

Deep Learning

Data Visualisation

## PROJECTS

### Anomaly Detection

- Detecting Anomalies in the S&P 500 Time Series index using LSTM Autoencoders with Keras in TensorFlow 2.

### Industrial Production Forecasting

- Forecasting the Monthly Production of Ice cream and frozen dessert using various time series methods like Holt-Winters, ARIMA and SARIMA with Hyperparameter optimization.

### Twitter Analytics with Python

- Scraping Twitter Data with Python-Twitter API and visualizing trends using WordClouds and TopicModelling.

### Automatic Caption Generator

- Deployed a web application on Heroku that automatically generates the best captions for an uploaded photo.

## PACKAGES

pandas, numpy, matplotlib, plotly, seaborn, scikit-learn, tensorflow, statsmodels, xgboost

## CERTIFICATIONS

Neural Networks and Deep Learning

Machine Learning A-Z

Time Series Analysis for Python

IBM Data Science

Python 3: Complete Bootcamp

## INTERESTS

Football

Gaming

Drawing