

# VEER PAL SINGH

**Google and IBM** certified data scientist with 14 years of experience in analyzing large datasets and coming up with data driven solutions that positively affect business decisions, and likes to work in a team of 8-12 team members.

## Contact:

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[LinkedIn](#)

[GitHub](#)

## Key Skills:

ETL process

Power Query

Big Data ( Vaex )

Basic and Inferential Statistics

**Tools** / NumPy, Pandas, Scikit-Learn, SciPy, MATLAB,

**Languages** / Python, R, SQL, SparkML, Scala, html

**Supervised & Unsupervised Models** / EDA, PCA, GBM,

KNN, XGBoost, Neural Networks, Regression,

logistic, Classification, Clustering,

Random Forest, Decision Tree, SVM

**Deep Learning Models** / RNN, CNN, LSTM, GAN,

AutoEncoder, Prophet, BERT, Transformer

**DL & NLP Tools** / TensorFlow, Keras, PyTorch,

NLTK, Apache Spark, Hadoop

**Databases** / My SQL, Postgres, NoSQL, SaaS, MongoDB

**Practical** / AutoML, A/B testing, Tuning, Pipelines

Feature Engineering, Debugging

**Model Deploy** / Apache Spark, Pipeline, IOT,

Flask, Shell, Airflow and Kafka

**Visualization** / Bokeh, Dash, Plotly, Matplotlib

**BI Tools** / Tableau, Excel, Minitab

**OS** / Linux, Windows, Mac

**Image Processing & Classification** / Open CV, Pillow

**Cloud** / Google Cloud, Amazon AWS, IBM Cloud

**Other** / Gaussian Process, Markov Chain Monte Carlo,

Mathematical and Statistical Modeling

**Aware** / Java, C++, SAS, Azure

## Education

MSc Mathematics

– University of Delhi

BSc Hon. Mathematics

– University of Delhi

## Certifications:

Stanford University / Machine Learning

DeepLearning.AI / Deep Learning

IBM / AI Engineering Professional

IBM / Machine Learning Professional

IBM / Applied AI Professional

IBM / Data Science Professional

Google / Data Analytics Professional

IBM / Advanced Data Science

DeepLearning.AI / TensorFlow Developer

Google / IT Automation with Python

DeepLearning.AI / Natural Language Processing (NLP)

University of Michigan / Applied Data Science with Python

University of Michigan / Statistics with Python

Imperial College of London / Mathematics for Machine Learning

Hong Kong Uni / Python and Statistics for Financial Analysis

EDHEC B Sch / Investment Management with Python and ML

New York University / Machine Learning for Trading

Tableau 10

Six Sigma Black Belt

Master in Digital Marketing

## Strengths:

Quick Learner

Commercially Aware

Collaborative

## Experience:

### Research Data Scientist - Machine Learning & Deep Learning

*Independent Consultant, Gurgaon, March, 2020-Present*

- ♦ Formulated Business Intelligence processes in collaboration with clients and generated annual profit of \$2.25+ million
- ♦ Build Tableau dashboard to visualize core business like monthly recurring revenue that saves 10 hours per week of manual reporting time.
- ♦ Performed data wrangling, ETL and data analysis to create visual reports, which in turn successfully drove business strategies and positively impacted sales by 24%
- ♦ Mentored and redesigned the website with findings from customers and competitive research increasing website leads by 225%
- ♦ Customer retention by reducing the Churn and potential revenue saving \$ 114434
- ♦ Evolve recommender system for sending job alerts to candidates, with 9% conversion rate
- ♦ Build web traffic time series predictions by ARIMA and LSTM with MSE 0.0066
- ♦ Trained CNN with tape gradient, able to classify images 10 times faster
- ♦ Semantic image segmentation, predicts a label for every single pixel with accuracy 92.67%
- ♦ Managed a project to develop Neural Network face recognizer that encoding name and distance for the image from  $\leq 0.7m$  using database.
- ♦ Teach Statistics and Research Methodology to 300+ data analysts and other professionals.

### Data Science Consultant (Profit Sharing Partner)

*Modex International Securities, Gurgaon, March, 2019-Feb, 2020*

- ♦ Developed Trading Dashboard in Python with Bokeh to evaluate portfolio table 18% better which increased revenue by 32%.
- ♦ Created simple RNN models for stock trading that outperformed by LSTM and GRU model to achieve 17% higher accuracy.
- ♦ Implemented algo trading model using CNN and LSTM-RL agent and achieved 71% increase in fund value in one year.

### Quantitative Data Analytics Specialist

*ICFM India, Delhi, October, 2018-March, 2019*

- ♦ Predicted option and future price 27% better by designing and developing new time series and forecasting model using Facebook Prophet.
- ♦ Developed algorithm based pair trading with a Kalman filtering approach, created a 36% reduction in monthly drift, corresponding to \$25K monthly P&L improvement.

### Six Sigma Black Belt Management Consultant

*Director, VSPS Pvt Ltd, Sushant Lok, Gurgaon, May, 2008 – October, 2018*

- ♦ Managed projects from ITC, Reckitt Benckiser, Glaxo Smith Kline, Apollo, Aster Tele Services, Kamdhenu etc. and grew office revenue by 67% annually.
- ♦ Performed Root Cause Analysis to improve efficiency, enhanced customer service, and supported sales teams in generating \$525K in add-on revenue for existing projects.
- ♦ Reduced production losses and yield losses by 12% and increased productivity by applying focused Kaizens.
- ♦ Conduct in-depth analyses including data collection, analyses, and synthesis to optimize onboard time for new hires by 31%.

### Statistics & Mathematics Tutor

*Freelancer Tutor / [Mathematics / Statistics / Quantitative Techniques]*

*July, 1996 – April, 2008*

- ♦ **Mentored 2750+ graduate and post graduate students** in Mathematics, Statistics and Quantitative Techniques to graduate and post graduate students with over 97% satisfaction.

## Projects:

- ♦ Sentiment Analysis of 14 common Women's Clothing Review
- ♦ Winning Space Race Project with 94.4% test data accuracy
- ♦ Working with Real World datasets using SQL, Python & IBM DB2 on Cloud
- ♦ Employee Churn Analysis with F1 score 93.1%
- ♦ Detailed performance analysis of Stock with 10.2% annual return and VAR 9%
- ♦ Sentiment Classification using BERT with PyTorch and Hugging Face transformer with MCC 0.17