

Siva Rama Krishna Perumalla

Data Science Trainer & Freelance Data Scientist

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Top 2% Data Scientist in Kaggle Competition.



PROFESSIONAL SUMMARY

Data Science | Machine Learning | Predictive Analytics | Data Reporting

- Over 2+ years of experience as data science trainer in a leading organization, trained around 10 batches (30+) of aspiring data science professionals. Guided 20+ real time projects related to Data science and Engineering.
- Implemented few live projects for different companies as freelance full stack data scientist over a span of 2 years.
- Good interpreter of business requirements into technical terms and vice versa. Excellent in use case identification from business requirements. Skilled in Data science concepts & Machine Learning.

SKILL SET

- **Python:** Proficiency in libraries like NumPy, Pandas, Matplotlib, Seaborn, Spicy, Sk-Learn
- **Machine Learning:**
 - **Supervised Machine Learning Techniques:**
 - **Regression:** Linear Regression, Polynomial Regression, Lasso Regression, Ridge Regression, Decision Tree Regression
 - **Classification:** Logistic Regression, K-Nearest Neighbours (KNN), Naïve Bayes, Support Vector Machines (SVM), Decision Tree, Random Forest
 - **Ensemble Techniques:** Boosting, Bagging, Stacking, Voting.
 - **Unsupervised Machine Learning Techniques:**
 - K-Means Clustering, Recommendation Engines, Market-Basket Analysis
 - **Dimension Reduction Techniques:**
 - Principal Component Analysis (PCA), t-SNE
 - **Forecasting Techniques:**
 - ARMA, ARIMA, Auto-ARIMA, SARIMA, ARCH, GARCH
- **Data Extraction:**
 - RDBMS, MySQL, SQL
 - Different file formats like (CSV, EXCEL, JSON, XML, HTML)

RESPONSIBILITIES

- Implement end-to-end data science life cycle from ideation to deployment and monitoring.
- Understand the business use cases from clients and convert them into a well-defined problem statement and explain it to the development team.
- Identify data sets required to develop predictive models for solving internal and external business problems

- Ability in extracting data from different databases types like RDBMS, MySQL, SQL by writing queries working with potentially incomplete data sources and cleaning data sets to discover new insights.
- Explore data sets and identify data transformation and data quality needs for targeted applications by Data exploration, mathematical/statistical modelling, data analysis and hypothesis testing.
- Develop algorithms and predictive models to derive insights and business value from data according to requirements.
- Communicate metrics, progresses and other key indicators to project management team.
- Interpret results and produce actionable business insights that lead to measurable business and consumer experience performance improvements.
- Exhibit leadership and mentorship capabilities to mentor other members of the team.

EDUCATION

Feb 2020 – July 2020	Executive Certification in Data Science and Machine Learning using R and Python Indian Institute of Management (IIM), Raipur
2009-2011	M.E. (Aerospace Engineering) Birla Institute of Technology (BIT), Mesra.
2005-2009	B.Tech. (Aeronautical Engineering) Jawaharlal Nehru Technological University, Hyderabad.

CERTIFICATIONS

- Certified **IBM Data Science Professional** through Coursera
- Certified **Microsoft Technology Associate (MTA)** in Python Programming
- Certified Data Scientist from **IABAC** (*International Association of Business Analytics Certification*), USA
- Certified Python for Data Science professional from **IIT Madras**.
- Certified Data Science for Engineers professional from **IIT Madras**

WORK EXPERIENCE

10/10/2018 to Present	Data Science Trainer & Data Scientist Freelance
04/12/2013 to Present	Assistant Professor/ Data Science Trainer/ Project Guide/ Data Engineer LakiReddy Bali Reddy College of Engineering (Autonomous), A.P.
07/2011 to 30/06/2012	Assistant Professor SRM university, Chennai.

PROJECTS

Project 1: Loan Underwriting

This project refers the process of a lender determining if a borrower's loan application is an acceptable risk. Based on the analysis of the credit, capacity, and collateral of the customer, we have predicted whether a particular customer could be sanctioned a Loan or not and also predicted the amount which could be sanctioned.

Project 2: Inventory and stock allocation based on sales prediction

The application was to provide a report of sale projection for different variety of stones and tiles in all the states of U.S. That helped the inventory team and warehouse team to manage the supply. The model was designed using sales data of last 5 years from different area and based on that the model tried to classify products in 3 classes high moderate and low sales classes.

Project 3: Banking application monitoring.

Involved in building an AI predictive modelling for monitoring bank application, it will help in checking the health status and monitoring the interface applications connected with the banking system, it Monitor and raises an alarm if there is any major issues within the application.

Project 4: Aero-Engine maintenance

After analysing datasets from various engines built predictive models for high impact Aero-Engine components. This model has not only consistently predicted the failure of components, but also helped reduce the downtime of aircraft in the field.

Project 5: Customer Segmentation:

Clustering the data set for target audience prediction for an E-Commerce company dataset based on geography/behavior and to predict the new customer would fall into which group.

Endorsement

I hereby declare that the information furnished above is complete and true to the best of my knowledge.

Date:

Signature