

Harshada Raut

SENIOR DATA SCIENTIST

SPECIALISING IN PROGRAMMING

Pune, India

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Professional Profile

Analytically minded Senior Data Scientist with an experience of over 3 years and a master's ensuring the accuracy and integrity of data. Rigorously interrogating large datasets to build prediction models and contribute to a wider strategy of robust analysis. Managed large projects of data mining and created Neural Network Models for better prediction analysis. A highly qualified engineer with a significant skill set to optimize business projects.

Technical Skills:


- Programming Languages and Visualization Tools:
Python including Dash, TensorFlow, Matplotlib, Scikit-Learn, NumPy, Pandas, Plotly, Keras etc.
▪ Google Analytics ▪ SQL ▪ Tableau ▪ Power BI ▪ R Programming ▪ Java ▪ C ▪ C++ ▪ C# ▪ PHP ▪ HTML
- Database/Server/ Operating Systems:
MySQL ▪ Postgres ▪ SQL Server ▪ Linux
- Other Competencies and Tools:
Statistical Analysis and Machine Learning Models (e.g. RNN, Linear and Logistic Regression, Random Forest, KNN, SVM etc.) ▪ MS Excel ▪ JIRA ▪ Google Cloud Platform (GCP) and Amazon Web Services (AWS) ▪ A/B Testing ▪ Java Core ▪ Human-centered design and UX skills
▪ QGSI ▪ Salesforce cloud services

Work Experience & Projects

-  Senior Data Scientist
Technicolor Creative Studios ▪ London, UK

Aug, 2022 – Dec, 2022

 - Worked closely direct with the global head and the leads of the Business Intelligence Team to enhance the forecast cloud and on-premises data storage using the break-even analysis.
 - Developed hypothesis and statistical models to support the decision-making and improve the prediction algorithms to enhance the performance of renders.
 - Created advanced Data Driven Application using Python Dash and SQL for better understanding of break-even analysis and improved overall profits.
 - Developed and deployed the data on a server to help businesses be more data-informed.
 - Applied cross-disciplinary thinking and led the business needs, objectives to increase capacity and overall profit.
 - Created dashboards and data visualizations as an expert user of analytics tools.
 - Made useful suggestions to improve operations team to make more data-informed decisions.
 - Communicated technical information to numerous audiences, including senior management, the user community, and less experienced staff. Presented data to drive business decisions.

-  Data Scientist
Metswift ▪ London, UK

Jan, 2021 – July, 2022


“Metswift” has won the 2019 "Best Use of Artificial Intelligence" in Underwriting Award by the Insurance Times. It is a rapidly growing weather platform working to improve the quality of weather and Nat Cat risk forecasts using Artificial intelligence and analytics.

KEY ACHIEVEMENTS AND RESPONSIBILITIES

- Increased company's revenue by 30 % by creating the best Neural Network model to predict the

weather data for STF (Short Term Forecast) as per the client's requirement by suggesting and developing the model from the scratch using an R&D approach.

- Implemented Data Warehousing, Data Mining techniques on large datasets and optimized old models for better prediction analysis, presented new AI for potential holdings to clients. Achieved 20 % better returns and historical performance.
- Optimized the world's fastest prediction model LTF (Long Term Forecast) for high-volume prediction data up to 5 years ahead in the future including Nat cat risk analysis, earthquake, and cyclone catastrophes.
- Applied Strong analytical skills and created visual dashboards via collecting, organizing, and analyzing to disseminate a significant amount of information with attention to detail and accuracy.
- Easily developed good relationships with stakeholders, peers and business partners using my excellent communication skills to interact well with people on a personal and professional level.
- Created and optimized process flow scripts with extensive use of Python 3 by extracting large datasets from different weather stations to increase agility and accuracy with a centralized system.
- Documented technical and business pipeline performed UATs, worked closely with management to prioritize reporting needs, and provided analysis as well as deep insights around critical indicators of companies' software performance testing and developing UX design.

 Assistant Research Analyst Aug, 2018 – Sep, 2019
IJRAR, International Journal of Research and Analytical Reviews

- Managed and worked with the research team and represented finding of the research paper at an International Conference titled “A Review and Forestalling Road Accidents using Machine Learning” published in the International of Research and Analytical Reviews (IJRAR) Vol. 6, Issue 1.
- Used clustering, hybrid K-MODE, LLC and Bayesian theorem to analyze fatalities and road accidents for better illumination of relationships. Our goal was to find proactive methods for decreasing the number of fatalities and severe injuries in road accidents.

Education

 Masters in Data Science Oct, 2019 – Nov, 2020
University of Essex ▪ Colchester, UK

NOTABLE MODULES

- Machine Learning and Data mining, Data Science and Decision making, Python Programming language, Modeling Experimental Data, Information Retrieval
- Applied Statistic, Research Methods, Exploratory Data Analysis and Data visualization using R

 Bachelors in Computer Science (Distinction) Jun, 2016 – April, 2019
Savitribai Phule Pune University ▪ Pune, India

NOTABLE MODULES

- Software Engineering, Core Java, Statistics, Relational Database Management System using MS-SQL, Mathematics I and II, Data structures using C, Electronics, Object Oriented Concepts using C++, HTML, VB and PHP.

Achievements & Other Works

- “Best Student of the Year”, Graduation Class, Faculty of Science (2016-2019).
- Excellence Scholarship Award (worth £5000), University of Essex.
- Moreover, I have high interest in sports and has honors in Boxing, Running, Relay, Kickboxing, Yoga along with extracurricular for Best Acting, Compering, Dancing, Singing in competitions.
- I'm was a member of National Youth Film Academy, London as an Actress and Cinematographer. Moreover, during my university being a versatile student I was member of Archery, Boxing, Climbing, Just Play, and Kickboxing Societies. To expand the horizons of Network I did also volunteer most of the events for Acting Society, Christian Society, Friends International and Student Union.