---VISHAL SHARMA --

SENIOR ANALYST MODELER – PRICING (A&BI)

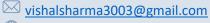
CONTACT



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SKILLS

- R PROGRAMMING
- **R SHINY**
- **R MARKDOWN**
- **PYTHON**
- MACHINE LEARNING
- DATA ANALYSIS
- **TABLEAU**
- **VISUALIZATIONS**
- **IMAGE PROCESSING**
- **GIT**
- SOL
- LATEX
- **VBA**
- SHELL SCRIPTING

MY PUBLIC WORKS

- **PORTFOLIO TRANSFORMATION CALCULATOR**
- **PATHFINDER**
- **CBRE DIMENSIONS**
- **APERGY DASHBOARD**
- **COVID 19 DATASETS**
- **COVID 19 DASHBOARD**
- **ONLINE CV**

PROFILE

Highly analytical and process-oriented scientist, strategist, and technical community builder with 7 years of cross-industry experience in numerous data science activities. Passionate about integrating statistical and computation methods into digital products to drive business value. I am a driven leader with interdisciplinary, technical background, combining academic curiosity with industry best practices. I greatly value mentorship, collaborative team building, creative solutioning, transparency, and personal growth. Research scholar with ongoing research on Deepfake detection technology with publications in progress.

EXPERIENCE

Equipped Analytical Intelligence

Senior Analyst Modeler

July 2021 – Present

Project: Dashboard Optimization & Refresh | Domain: Data Science | Tableau, R

- Convert the R Shiny Dashboards to Tableau dashboards
- Lead a team of three analysts for the migration
- Optimization of the existing R Shiny Dashboards using advanced R Concepts
- Accelerate the performance of BAUs
- Adding or Creating Dimensions, Measures and Calculations as required

Project: Delivery Engine | Domain: Data Science | R Programming

- Develop a natural language system to predict the potential standardized value for a new categorical value found in the data warehouse
- Create a pipeline for one-click automation of Quality Checks and workflow
- Create an algorithm for rationalization of code across teams
- Create data standardization mapping using NLP
- Work closely with product managers to understand the QA framework

Project: Equipped Library | Domain: Data Science | R Programming, Python & RStudio Connect

- Create an end-to-end R library from scratch
- Create functions supporting Performing and Non-Performing Loans
- Optimization & Modelling functions for the entire organization
- **Automation of Pricing Models**

Project: Revaluations & Forecasting | Domain: Data Science & Analytics | R Programming, Excel

- Conduct Internal trainings to teach the team R concepts
- Implement analytical concepts like Markov Chains in R
- Create models for predicting the strength of the portfolio
- Implement Statistical concepts like Monte-Carlo simulation of valuation and forecast performing & non-performing portfolios

TOOLS

- R STUDIO
- JUPYTER NOTEBOOK
- GOOGLE COLAB
- VISUAL STUDIO CODE
- D3.JS
- PLOTLY
- HIGHCHART

EDUCATION

Ph.D. in Computer Science

2021-2025

Thesis Title: Detecting DeepFake Videos Based on Spatio-temporal Features & Audio-Visual Modalities Using Artificial Intelligence

Master's in computer science

2017-2020

Thesis Title: House Prices Prediction & Analysis

Bachelor's in computer science

2011-2015

Project Title: Inventory Management System

PAPERS IN PROGRESS

A Systematic Literature Review on Deepfake Detection

ACCOMPLISHMENTS

- FORTUNE 500 EXPERIENCE
- GIT CERTIFICATION
- PYTHON CERTIFICATION
- BEST SHINY APP PRIZE
- CUSTOMER DELIGHT AWARD
- SEVERAL APPLAUSES
- WORK EXPERIENCE FOR UK
 & BELGIUM

CBRE

Data Scientist

January 2020 - June 2021

Project: Portfolio Transformation Calculator | Domain: Real Estate | R Shiny

Link: https://vantage-delivered.com/calculator/index.html

- Predict potential savings due to reduced staff during COVID-19
- Build best-in-class dashboard for multiple stakeholders
- Provide the flexibility to connect to various products based on the space calculation
- Plot the complete output before and after COVID-19 and predict the expected reduction in cost.
- Enable sharing functionality for sharing the scenario to other users.

Project: EDA Automation | Domain: Data Science | R Markdown

- Automate the generation of EDA Report so that anyone can run it
- Creating and regular updates in conditional library
- Resolve questions raised by stakeholders in conditions or graphs
- Generate EDA reports with custom visualizations using outsourced libraries like plotly, d3.js in R markdown

Project: CBRE Pathfinder | Domain: Real Estate | R Shiny, Python

Link: https://cbre-client-solutions.shinyapps.io/Pathfinder UI/ w 43db1e55/

- Dashboard for executing and fetching results from various models/algorithms defined by CBRE experts
- Implement supervised learning methods to assist in the property management decisions for the clients
- The models created in Python and accessed using APIs in R
- Flask app runs on AWS and then APIs are hit using R to get the results after the execution of algorithm
- Flexibility to choose and run selected algorithms, download the results and save it

Project: Lease Admin Dashboard | Domain: Real Estate | Tableau

- Create tableau portfolio dashboard for various fortune 500 clients.
- Notification for the expiration of lease coming soon
- Graphs representing the area wise leases, owned or subleased properties
- Portfolio representing total area, total annual rent and operating expenses shown in the dashboard
- Maps showing the location of every office
- Coordinating with Tableau Admin Team for Production Deployment
- Calculation of KPIs based on the underwritten metrics

National Savings and Investments Bank, Durham, UK

Junior Data Scientist

May 2018 - Jan 2020

Project: Sopra Banking Platform | Domain: Banking

- Extending information with third-party sources of information when needed (Experian/GB Group)
- Data mining using state-of-the-art methods
- Enhancing data collection procedures to include information that is relevant for building analytics systems
- Processing, cleansing, and verifying the integrity of data used for analysis
- Use of machine learning techniques such as k-means, neural networks, Naive Bayes, SVM, Decision trees, Random Forest, etc.
- Developing Predictive Models to determine users' likeliness of subscribing to a term deposit
- Developed an automated fetching campaign wise data of calls for doing data science and analysis activities

STRENGTHS

- OPTIMISTIC
- TIME AND TASK
 MANAGEMENT
- PATIENCE
- QUICK LEARNING ABILITY
- PUNCTUAL WITH DEADLINES
- TECHNOLOGY AGNOSTIC
- POSITIVE ATTITUDE
- EMAIL ETIQUETTES
- SUPREME COMMUNICATION SKILLS
- INNOVATIVE

PERSONAL DETAILS

Spouse's Name : Yogeeta Sharma

Father's Name : Surender Kumar Sharma

Mother's Name : Reeta Sharma

Date of Birth : 30th March 1994

Marital Status : Married

Nationality : Indian

Sopra Steria

Module Lead

July 2015 - May 2018

Project: Prediction of house prices | Domain: Real Estate

- Identify the area wise housing price in UK
- Outlier detection for extraordinary houses to be taken care separately
- Area wise frequency of type of house detached, semi-detached, terraced.
- According to area, type of house, age, etc. predict the price of house and present to the customer while posting advertisement.
- Based on time series analysis, predict the price of houses in future
- Customer Segmentation and analysis RFM algorithm to bucket customer into different categories
- Performed statistical analysis on the customer web data to track customer usage of the website and generate engagement reports.
- Presentation and embedding the model into website using the R Shiny app
- Visualizations using ggplot and heatmaps for correlation matrix.

Project: Airbus | Domain: Manufacturing

- Impact Analysis (Apriori Algorithm for association)
- Worked with various NLP techniques namely Bag of Words, TF-IDF, TF-IDF-CF, POS-Tagging and word embedding etc.
- Performed Risk Analysis and have applied various statistical and predictive models like naive forecast, time series analysis, and multiple linear regression to detect the correct resolved group
- Presentation of data to the customer using Qlik Sense