**Chandrahas Dhiraj**

**Senior Consultant - Data Science & AI**

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**Summary**

A data science enthusiast with a demonstrated ability to deliver valuable insights via data analytics and advanced data-driven methods. In-depth conceptual understanding of Mathematics and Statistics pertaining to real life applications using Data Science

* Areas of Interest*:* Statistical Modelling, Machine learning, Visualization, Business Insights.
* Target Sectors*:* Finance, Banking, Real Estate, Healthcare, e-Commerce, Manufacturing
* Previous Experience:
  + As a management consultant, assisted clients to build the required capabilities for growth and innovation in order to sustain high performance covering the India leasing and investment markets.
  + Worked with inter teams to developed solution roadmap, effort estimation for different projects and PoCs
  + Conducted market analysis, competitive benchmarking and opportunity assessments; providing insights to consultancy projects using data driven methods and Machine Learning
* **Skills:** Hands on experience in **Machine Learning using Python**, data preprocessing and exploratory data analysis using **advanced excel** and **python libraries,** Business insights using **Tableau.**

**Academic Details**

* **Post-Graduate Diploma in Machine Learning and AI** from IIIT Bangalore
* **PGDM in Finance and International Business** from NIILM-CMS
* **Bachelor of Technology** from Applied college of Management and Engineering.

**Projects**

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| **Title** | **:** | **Automation of Trade Finance** |
| **Industry** | **:** | Trade Finance for Banks |
| **Role** | **:** | Data Science Consultant |
| **Method** | **:** | Machine learning, OCR, Document Classification, Text Analysis |
| **Tools** | **:** | IBM Watson Knowledge studio, Natural Language Understanding, Python. OCR |
| **Description** | **:** | Cognitive data capture and extract solution for trade documents with feedback mechanism to provide feedback and teach systems with ml capabilities. Improved OCR accuracy with intelligent learning capabilities along with automation of scrutiny rules using a combination of BRE, AI tech, ml and knowledge base |

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| **Title** | **:** | **Customer Interactive Data System** |
| **Industry** | **:** | Real Estate – Office Market |
| **Role** | **:** | Data Science Consultant |
| **Method** | **:** | Analyzed Market transactions and identified trends and patterns. |
| **Tools** | **:** | Excel, Tableau |
| **Description** | **:** | Provides market insights and enables clients to visualize trends based on data at one place and generates revenue for the company |

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| **Title** | **:** | **Property Price Prediction** |
| **Industry** | **:** | Real Estate – REIT |
| **Role** | **:** | Data Science Consultant |
| **Method** | **:** | Rental calculation, Machine learning, |
| **Tools** | **:** | Excel, Python, Machine Learning |
| **Description** | **:** | This project aims to provide useful insights to property investors to help in their decision-making as to which property to purchase and rent out in order to maximize rental yield |

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| **Title** | **:** | **Identify Potential Buyers** |
| **Industry** |  | Real Estate - Residential |
| **Role** | **:** | Data Science Consultant |
| **Method** | **:** | Analyzing customer preferences, Defined method for customer selection, Machine Learning |
| **Tools** | **:** | Excel, Python, Machine Learning |
| **Description** | **:** | Predicts the potential buyers for the asset which helps clients to identify buyers who have a higher probability of buying the asset. This increased the success ratio while at the same time reducing the cost of the campaign |

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| **Title** | **:** | **HR Chat Bot** |
| **Industry** | **:** | Banking and finance |
| **Role** | **:** | Data Science Consultant |
| **Method** | **:** | Machine learning, Text Classification, |
| **Tools** | **:** | IBM Watson Knowledge studio, Python |
| **Description** | **:** | Watson Assistant chatbot to help bank employee to check for their eligibility for educational subsidy. Chat bot prompt various question in conversational manner, process the input from employee and decide if they are eligible or not. |

**IT Skills**

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| ***Statistics*** | **:** | Normal Distribution, Probability Distribution, Hypothesis testing (CLT, Z-test, p-test, t-test) |
| ***Programming skill*** | **:** | Python |
| ***Data manipulation, Analysis and Visualization*** | **:** | Numpy, Pandas, Matplotlib, Seaborn, Sklearn, MS Excel, Tableau, NLTK, |
| ***ML essentials*** | **:** | Regression (Linear & Logistics), Ensemble (Random Forest, Gradient Tree Boosting, Ada Boosting, XGBoost), other Supervised Learning (Decision tree, Naive Bayes, SVM), Regularisation, Cross-validation, Hyper-parameter tuning, Grid-search, Unsupervised Learning (KNN,) PCA, NLP, Deep Learning (ANN, CNN, RNN) |
| ***Data Extraction*** | **:** | SQL |