

CONTACT DETAILS



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KEY IMPACT AREAS

- Data Science & Analytics
- Machine Learning
- Deep Learning
- Computer Vision
- NLP
- Project Management
- Mentoring & Knowledge Sharing
- Data Transformation & Automation
- Client Engagement

TECHNICAL SKILLS

- **Analytical Tools:** Python (Sklern, Pandas, NumPy, SciPy)
- **Visualization Tools:** Power-BI, Tableau
- **Statistical Techniques:** Regression Logistic Regression, Decision Tree, SVM, Clustering, Random Forest

EDUCATION

- **2015: B.Tech. (ECE)** from ITER, Siksha 'O' Anusandhan University with 7.21 CGPA
- **2011: 12th** from Army Public School, Ramgarh Cantt., CBSE Board with 64.2%
- **2009: 10th** from Army Public School, Ramgarh Cantt., CBSE Board with 82.8%

CERTIFICATIONS

- Certified **Artificial Intelligence and Machine Learning** from University of Texas (Austin)
- Executive Education and Great Lakes Executive Program

VAIBHAV SAWHNEY

Targeting mid to senior level assignments in Data Science and Machine Learning with an organization of high reputation

Location Preference – Bangalore



PROFILE SUMMARY

- Achievement-driven professional with nearly 8 years in IT Industry including **4 years** of relevant experience in Data Science including Predictive Analysis, Machine Learning and Artificial Intelligence; skills in Python, SQL & Power BI
- Talented Analyst with exceptional background in utilizing data from diverse information systems and performing analysis of large data sets to remarkably improve organizational decision making capabilities
- **Developed Advanced Statistical and AI / Machine Learning models for large-scale**, high-dimensional data using algorithms Artificial Neural Networks, Deep Neural Networks, Linear/Polynomial/Logistic Regression
- **Drove expanded system capability and leading-edge solutions development** using the concepts of Data Science, AI, Machine Learning, Cognitive Computing, & Analytics while meeting rigorous cost constraints to maintain competitive edge
- Exceptional background in utilizing data from diverse information systems to develop reports & models that help users access & analyse data resulting in higher revenues & margins; competent in performing analysis of large data sets with the purpose of understanding or making conclusions for decision-making purposes
- Expertise in using analytical tools, software & libraries to attain a competitive edge in the industry; providing insights on trends, analysis, opportunities and projections to build models
- Effective leader and an analyst, with a flair for adapting quickly to dynamic business environments and adopting pragmatic approach in improvising on solutions & resolving complex issues



WORK EXPERIENCE

Since Dec'21: IFB Industries Ltd., Goa
Senior Executive (R&D)

Role:

- Liaising with the clients to assess the functional requirements and translating them into the data analytic approaches; identifying & validating the data sources to authenticate the conducted analysis
- Managing projects involving interpretation of business metrics & operational data
- Spearheading requirement gathering and concept design phase of the project
- Conducting Statistical data analysis, data import from many sources, dataset combining, cleaning & preprocessing, data wrangling, and visualisations
- Determining and implementing statistical models including linear models, multivariate analysis, stochastic models, sampling, optimization and time series analysis
- Conducting source mapping, analysis (quantitative and qualitative) and validation of data
- Identifying key areas in business process improvement and providing support for performance related issues and system improvements
- Ensuring compliance with coding standards and internal practice

PROJECTS MANAGED

Title: Wash Program Recommendation using ML

- ML model was built for washing program Recommendation based on the customer's past 3-4 weeks washing pattern.
- Analysed and processed of user's wash pattern for the particular day of the week.
- Model was trained for recommending a wash program for the particular day.
- The best model recommended a wash program for the particular day with 87.23% accuracy.

SOFT SKILLS

- Analytical
- Communicator
- Leader
- Collaborator

PERSONAL DETAILS

- **Date of Birth:** 11th April, 1994
- **Languages Known:** English, Hindi and Punjabi
- **Address:** Bengaluru, India

Title: Detection of number and color of clothes using Computer Vision

- Built a comprehensive collection of clothes images by capturing and annotating images of clothes from the heap of clothes.
- Created an AI model using computer vision to detect the number of clothes and recognize their colors with high accuracy.
- Utilized Detectron 2, a state-of-the-art object detection library from Facebook, to implement the model.
- Achieved an accuracy of 85.67% in detecting the number of clothes and 72.40% in recognizing their colors.

Title: Clothes Weight Prediction in Sensor less Washer using ML

- The data analysis was done for different weights using various machines
- Many ML models were built using various algorithms
- The accuracy of each model was noted and compared.
- Confusion Matrix was plotted to get better understanding of the weight prediction.
- The final model was built to get the equation which was used for determining the weight for the load in the machine.

Title: Categorization of Complaints using NLP

- Tokenized each complain and bifurcated each complaint into list of strings
- Removed any strings with numbers, punctuation, and irregular characters from the tokens
- Removed the stop words
- Lemmatized the narratives' tokens to reduce words into their key concepts
- Finally, concatenated the individual tokens back into longer strings for the models so as to work on them

Title: Turbidity Analysis using Power-BI

- Used Power BI desktop to create interactive dashboards for analyzing the turbidity
- Integrated custom visuals based on requirements and created new features using the available ones
- Worked on creation of analysis reports by number of stain patches
- Executed work with various transformations that the Power BI query editor offers
- Utilized DAX functions such as table, aggregation, and iteration to create analysis reports and visualizations



PREVIOUS EXPERIENCE

Mar'19-Nov'21 with Teqforce Solutions Pvt. Ltd. as Data Scientist, Bangalore

Title: BFSI Domain

- Examined Using Python and Tableau, examined factors influencing loan defaults and high-risk applicants
- Analyzed risk via EDA then performed in-depth Exploratory Data Analysis
- Divided the data into Train and Test dataset, when the dataset was ready.
- Tested the model on Test dataset after implementing the algorithm on Train dataset
- Measured Accuracy, Recall, and Precision to determine the confusion matrix and performance
- Designed a risk analysis model that enables the personal loan division of the Retail Bank to classify high risk applicants and design new methods to avoid bad debt

Title: Real Estate Domain

- Liaised with partners to create real estate committee meeting agendas and presentation packages, including P&L analysis
- Offered suggestions to manage against plan about the identified risks and opportunities vs. budget
- Ensured effective development and analysis of capital budgets and forecasts
- Performed process and recovery reporting and resolved queries
- Generated budgets, forecasts and variance analysis for house occupancy costs
- Used Linear Regression, Decision Tree, and Random Forest to determine house construction budgets and maximize profits

Mar'16-Feb'19 with Cognizant Technology Solutions as Senior System Engineer

May'15-Oct'15 with Infosys Ltd. as System Engineer Trainee