

Vishal Chouhan

+91 7619548656 | Bengaluru, India | chouhanvishald@gmail.com

<https://www.linkedin.com/in/vishalchouhan23/> | <https://github.com/vishalchouhan2309> | Portfolio - <https://vishalchouhan.vercel.app/>

Education

Bachelor of Engineering (B.E), Computer Science Engineering (Data Science), CGPA - 8.39

June 2020 - June 2024

MVJ College of Engineering, India.

Technical Skills

Programming Language - C, C++, Python (Proficient), R, **Database** - MongoDB, RDBMS, MySQL, Microsoft Excel, SQLite, PostgreSQL

Web Development - HTML, CSS, JavaScript, Django, Flask, Bootstrap, RESTful API

Data Science - Problem definition, Research and market strategy, Data collection, Data warehousing, Data wrangling (Pandas, NumPy, SciPy), Exploratory data analysis (Trends, Patterns, Histogram), Statistical analysis (Hypothesis testing, Regression analysis), Data modeling, ETL tools, Machine learning (Regression, Classification, Clustering), Model evaluation and performance (Accuracy, Precision, Recall), Predictive modeling and recommendation, Data management and automation, Model deployment, Data visualization (Matplotlib, Seaborn, Dashboard, Power BI), Reporting (Documentation, Business presentation), Big data (Hadoop, Apache Spark, MapReduce)

Cloud/Version Control - AWS (S3 and EC2), Azure (Synapse, Data Factory), Git, GitHub, Docker, Bash scripting, CI/CD Pipeline, Generative AI

Coursework - DBMS, Software development, Data analysis, OOPS, Operating systems, Linux, Project management, Big data, Data structures

Core Competencies - Agile methodologies, SDLC, Business insights and analytics, Machine learning, Performance optimization, System scalability, Cloud and on-premises work, Documentation, ETL and data pipeline, Proof of concept, Microsoft Office (Excel, PowerPoint, Word)

Soft Skills - Problem solving, Excellent communication, Team collaboration, Attention to detail, Adaptability, Time management, Continuous learner, Critical thinker, Organized, Leadership, Confidence, Proactive action, Workload management, Interpersonal skills, Multitasking

Work Experience

Data analyst Intern, IBM Skill build by AICTE

August 2023 – September 2023 | Bengaluru, India

- Accomplished a **12%** revenue increase by analyzing a fictional superstore sales data to identify trends and patterns, providing actionable recommendations based on product category, region, customer segment, and sales channel analysis for strategic decision-making.
- Achieved a **15%** improvement in data processing by using Python, Pandas, NumPy, Matplotlib and performing exploratory data analysis.

Business Analyst Intern, Kulturehire Pvt Ltd

May 2023 - July 2023 | Puducherry, India

- Developed a real-time Power BI dashboard, enabling dynamic insights, facilitating data-driven decision-making for business performance.
- Enhanced operational efficiency through comprehensive project documentation, reducing errors by **20%**, and implemented a KPI reporting system, reducing manual workload by **70%** and enhancing data analysis accuracy.
- Facilitated streamlined operations and ensured reliable insights by mastering Excel, pivot tables, VBA, Power BI, and data cleaning.

Data Science Intern, Verzeo Pvt Ltd

February 2022 - April 2022 | Bengaluru, India

- Accomplished accurate mobile price prediction by implementing a multi-class classification model using XG Boost, Decision tree, and Random Forest classifier algorithms. Conducted hyperparameter tuning with GridSearch CV, resulting in enhanced predictive capabilities.
- Enhanced model robustness and performance by conducting feature extraction, outlier treatment, and exploratory data analysis (EDA).
- Achieved a **93%** precision score with XGBoost classification algorithm, empowering businesses to accurately predict smartphone prices.
- Facilitated a **15%** improvement in customer satisfaction by collaborating with a team of **4** to deliver data-driven insights, resulting in enhanced product offerings and optimized strategies.

Projects

Music streaming web app (Tech Stack - Python, Django, Bootstrap, HTML, CSS) ([Link](#))

- Developed a **full-stack web app** with features like OAuth-based login/signup, song playback, detailed song views, recently played tracks, multiple playlist creation, and advanced song search/filter capabilities, enhancing user engagement and functionality.

AI Fit (AI Yoga Trainer) (Tech Stack - HTML, CSS, JavaScript, React, Node JS, Docker, Tensorflow.JS, Machine Learning, KNN Classifier) ([Link](#))

- Attained real-time pose detection and feedback in the AI yoga trainer by leveraging deep learning, KNN Classifier machine learning, and a pre-trained TensorFlow MoveNet model, resulting in precise body key point prediction for enhanced yoga practice.
- Trained** yoga poses using **neural network**, achieving **94%** training accuracy and **93%** test accuracy utilizing SoftMax function.

Sales Insights hub (Tech Stack -Microsoft Excel, Power BI, Power Query, DAX Functions, Reporting) ([Link](#))

- Enhanced sales analysis by creating a Power BI dashboard, identifying key performance indicators, and monitoring sales revenue and profit by category, empowering stakeholders to spot opportunities, track targets, and optimize revenue customer acquisition strategies.

Online Cab trip Analysis (Tech Stack – HTML, CSS, Streamlit, SQL, Python) ([Link](#))

- Attained a **30%** improvement in operations by conducting comprehensive data analysis of over **1000** online cab trip records using SQL, Python, and advanced statistical techniques, leading to the identification of trends, correlations, and actionable insights.
- Facilitated operations by managing **end-to-end data analysis**, collaborating with a team of **3** to present findings and recommend enhancements. Implemented data cleaning, visualization, and report compilation to drive operational efficiency.

Certifications

Python for Data Science by IBM, Data Visualization with Python by IBM, Data Analysis with Python by IBM, Spark Fundamentals 1 by IBM

Hadoop 101 by IBM, Big Data 101 by IBM, Intel Edge AI Certification by Intel, IT for Business Success by HP, Microsoft Excel Advanced (Udemy)