# Nikhil Vinod

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## CAREER SUMMARY

Highly motivated and results-oriented data science graduate with practical experience in data analysis, machine learning, and visualization. Proficient in SQL, Python (Pandas, NumPy, Scikit-learn), and statistical techniques, including supervised and unsupervised learning methods. Proven ability to translate complex data into actionable insights demonstrated through successful project completion and technical blogging. Seeking an entry-level data scientist position to leverage my skills and contribute to a dynamic, data-driven team.

## KEY SKILLS

- Programming Languages: Python (Pandas, NumPy, Scikit-learn), SQL
- Machine Learning: Supervised learning (Linear Regression, Logistic Regression, Decision Tree, KNN, Ensemble Methods); Unsupervised learning (KMeans, Agglomerative Clustering, PCA)
- Data Analysis & Visualization: Data cleaning, preprocessing, EDA, statistical analysis; Tableau, Matplotlib, Seaborn, Plotly Express
- Databases: SQL (HackerRank certified)
- Tools & Platforms: Jupyter Notebook, MS Excel, Google Sheets, Google Colab

## ACADEMIC – DATA SCIENCE PROJECTS

**Empowering Early Detection of Heart Attack Risks with Machine Learning**

- **Approach:** Leveraged classification models such as Logistic Regression and XGBoost to predict heart attack risks. Performed data pre-processing, feature engineering, and model evaluation to ensure high prediction accuracy.
- **Insights:** Identified key risk factors influencing heart attack chances, such as age, smoking status, Diabetes, etc
- **Value Addition:** The project offers a predictive tool for early medical intervention, potentially saving lives and reducing healthcare costs through timely detection.
- Tools Used: Python (Pandas, NumPy, Scikit-learn), Matplotlib

**Prioritizing Development Needs: A Socio-Economic Analysis of Nations** GitHub Link

- **Approach:** Used Principal Component Analysis (PCA) for dimensionality reduction and KMeans clustering to group countries based on socio-economic and health factors. Insights: Highlighted countries most in need of aid, based on a combination of healthcare, economic stability, and education metrics.
- **Value Addition:** The analysis provided actionable insights for strategic aid allocation, helping organizations like HELP International target resources effectively.
- Tools Used: Tools: Python (Pandas, NumPy, Scikit-learn), Seaborn, Matplotlib

**IPL Data Analysis for 2024 Special Edition Magazine** Github Link

- **Approach:** Conducted a comprehensive analysis of IPL data from 2021 to 2023 using SQL, focusing on player performance, team strategies, and season-specific trends. The analysis included identifying top-performing players, evaluating team success rates, and uncovering patterns in boundary and dot ball effectiveness.
- **Insights:** Identified leading players in batting and bowling based on performance metrics (runs, wickets, strike rates, economy rates). Analyzed team strategies to determine the success rates in match outcomes and chasing targets.

- **Value Addition:** Delivered data-driven insights for a special IPL 2024 magazine, providing value to fans, analysts, and teams. This project honed my SQL and data analysis skills, demonstrating the value of data-driven insights in sports performance evaluation.
- Tools Used: SQL, Data Analysis

## HACKATHONS/OTHER CERTIFICATIONS

- SQL skill certification – HackerRank

## EDUCATION

**Post Graduate Programme in Data Science and Engineering** , 2021– 2024

Great Lakes Institute of Management

**BCom - Finance** , 2024 – 2025

Calicut University

**12th Std** , 2019 – 2021

Govt. Boys Higher Secondary School Manjeri

**10th Std** , 2019

Govt. Boys Higher Secondary School Manjeri

## OTHER ACHIEVEMENTS

- **Technical Blogging:** Authored blogs on various data science concepts (Linear Regression, Bagging vs. Boosting, etc.).
- **Academic Excellence:** 98% in 12th Grade, 82% in undergraduate studies.