

# Harish Barhate

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## Summary

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Results-driven **Computer Science** graduate with strong foundations in **Data Science, Machine Learning, and Python**. Passionate about leveraging data to solve **real-world problems**, with hands-on experience in **predictive modeling, computer vision, and algorithm optimization**. Proficient in building end-to-end solutions using **Scikit-learn, OpenCV, and SQL**, backed by specialized certifications from **Google and IBM**.

## Technical Skills

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**Data Science & ML:** Python, NumPy, Pandas, Matplotlib, Scikit-learn, OpenCV

**Algorithms & Techniques:** Regression Analysis, Classification, Clustering, Genetic Algorithms, Computer Vision

**Data Collection & Management:** SQL, Web Scraping (BeautifulSoup), Firebase

**Tools & Platforms:** Git, Linux, Jupyter Notebooks

**Additional Languages:** JavaScript, Dart

## Professional Experience

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### Data Science Intern | Cuvette Tech Pvt. Ltd. | Feb - Aug 2025( 6 Months)

- Successfully completed a rigorous 6-month internship program focused on SQL, Excel, Tableau, Python and Machine Learning.
- Trained under top alumni from IIT Kharagpur, gaining practical proficiency in data analysis and predictive modeling.

### AI/ML Intern | Estro Pvt. Ltd, Nashik | Apr 2022

- Built and deployed an image detection system utilizing Python and OpenCV.
- Performed hyperparameter tuning to optimize model performance, successfully increasing accuracy by 15%

## Projects

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### Hotel Booking Cancellation Prediction | Python, Scikit-learn, Random Forest

- Built a classification model on 119,000+ records using Random Forest and Gradient Boosting to predict cancellations.
- Optimized model performance using GridSearchCV and engineered features like "Lead Time" categories to enhance predictive accuracy.

### Olympics History Data Analysis | SQL (PostgreSQL)

- Analysed 270,000+ athlete records using advanced SQL queries (Joins, CTEs, Window Functions) to identify performance trends.
- Derived complex insights such as "Gold Medal Ratios" per country and multi-sport athlete participation rates.

### Smart Timetable Generator | Python, Genetic Algorithms

- Developed an automated scheduling system using Genetic Algorithms to resolve NP-hard constraint conflicts.
- Optimized crossover and mutation logic, increasing timetable generation efficiency by 40% for academic use.

## Education

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### B.Tech, Computer Science

Shri Sant Gajanan Maharaj College of Engineering | 2024 | 6.49 CGPA

### HSC (12th)

Major Hemant Jakate Institute of Science | 2020 | 72%

### SSC (10th)

South Point School | 2018 | 85%

## Certifications

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- **Google Data Analytics** | Coursera
- **Machine Learning (IBM)** | Coursera
- **Python Training** | DataFlair
- **Blockchain Workshop** | CSESA, SSGMCE