

Harish Barhate

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Summary

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

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

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

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

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

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