# Yash Ashok Shirsath

LinkedIn, GitHub, Portfolio Tableau Public, Kaggle, GCSB

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## EDUCATION

**A C Patil College of Engineering** — Kharghar, Navi Mumbai
*Bachelor of Technology - Artificial Intelligence and Data Science; GPA: 8.67* — *07/2020 - 06/2025*
**Courses:** *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

## SKILLS SUMMARY

- **Languages:** Python, R, SQL, DAX
- **Frameworks:** Scikit, NLTK, NumPy, TensorFlow, Keras, Pandas, Matplotlib, Seaborn, Jupyter, ggplot2, Spacy, XGBoost
- **Tools:** PowerBI, MS Excel, Google Analytics, Data Studio, MySQL, SQLite, RStudio, Google Sheets, Looker
- **Platforms:** Linux, Web, Windows, Jupyter, Google Colab, Datalore, GCP, IPython, IDLE, PyCharm
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking

## EXPERIENCE

**HackerBro Technologies** — Remote
*Cyber Security Analyst (Red Teaming)* — *03/2023 - 10/2023*
- **Red Team Fundementals**: Conducted thorough red team assessments to identify and exploit vulnerabilities in systems and networks, simulating real-world cyber threats.
- **Pentesting Tools**: Utilized advanced penetration testing tools and techniques to assess and enhance the security posture of the organization.
- **Trends**: Stayed abreast of the latest cybersecurity trends, emerging threats, and industry best practices to implement security measures.

**PHN Technology Pvt Ltd** — Remote
*ML and Data Science Intern* — *06/2023 - 08/2023*
- **BI Dashboards**: Collaborated in crafting Power BI dashboards for client data visualization, facilitating the interpretation of vital metrics.
- **Stats Analysis**: Assisted in applying statistical analysis to datasets, supporting data-driven decision-making processes
- **Predictive Modeling**: Participated in the design and implementation of simple predictive models for equipment maintenance, contributing to a reduction in downtime
- **Exploratory Data Analysis (EDA)**: Conducted thorough exploratory data analysis (EDA) on large datasets, extracting valuable insights pivotal for guiding strategic decision-making processes

## PROJECTS

- **Web Scraping for Data Analysis & Predictive Model on Customer's Data** : Leveraged web scraping to extract customer feedback at Air India, performing in-depth data analysis and implementing machine learning for predictive modeling. Contributed to data-driven decision-making, enhancing services, and improving customer satisfaction. Demonstrated expertise in web scraping, data analysis, and predictive modeling for actionable business insights.

- **Terrorist Activity Forecasting and Risk Assessment System (TAFRAS)**: Engineered a forecasting and risk assessment system for terrorist activities, utilizing data analysis and machine learning to assess and predict potential incidents. Contributed to the development of a robust risk assessment model and implemented advanced statistical techniques to enhance forecasting accuracy.

- **Customer Retention With Diversity and Inclusion**: Showcased expertise in data visualization by creating impactful Power BI dashboards that effectively communicated key performance indicators (KPIs). Demonstrated strong communication skills by delivering valuable insights and actionable suggestions based on data analysis. Leveraged analytical skills to examine HR data, with a specific focus on gender-related KPIs. Identified root causes for gender balance issues at the executive management level, emphasizing a commitment to data-driven decision-making.

- **Prediction of Employees Promotion and Analyzing Factors that Affecting Promotions**: Conducted data analysis to optimize organizational performance, focusing on employee development. Identified training needs for specific departments, fostering inclusivity. Improved gender equality in promotions through strategic initiatives. Implemented tailored improvement programs based on training scores. Strategized retention efforts for skilled workers, aligning with organizational goals. Demonstrates commitment to evidence-based decision-making and continuous improvement.

## HONORS AND AWARDS

- Runner's Up at Accenture Innovation Challenge 2023 - 11/2023
- Runner's Up at SIH College Level Hackathon - 10/2023

## VOLUNTEER EXPERIENCE

**Co-Head at National Service Scheme (NSS ACPCE)** — Kharghar, India
*Guided a team of volunteers in strategizing and executing impactful community service initiatives. 07/2023 - Present*