

# Archana Chinchole

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[LinkedIn](#) | [Github](#)

## Education

- **M.Sc Statistics** June 2022 – June 2024  
Savitribai Phule Pune University CGPA - 8.05  
**Relevant Coursework:** Advanced Statistical Methods, Data Mining, Survey-based Research, **Time Series Analysis**.
- **B.Sc Actuarial Sciences** June 2019 – June 2022  
North Maharashtra University CGPA - 7.53  
**Relevant Coursework:** Probability Theory, Financial Mathematics, Statistical Inference, Risk Management, Sample Design, Universe Estimation

## Internship Experience

- 1. IEduVibhu: Analytics Trainee** December 2023 – January 2024
  - Refined datasets for NAAC accreditation using **Python**, **Flask**, **Excel**, and **machine learning**, enhancing data accuracy by 30%
  - Formulated and executed data strategies, increasing statistical model efficiency by 25%.
  - Spearheaded and optimized data evaluation processes, reducing manual effort by 40%.
  - Designed and managed interactive dashboards to monitor key performance metrics.
  - Delivered actionable insights to senior management, contributing to a 15% improvement in project outcomes.
- 2. Forage: Intern, ESG Virtual Experience Program** March 2023 – April 2023
  - Performed comprehensive analysis and understanding of client needs and customer inside to performed comparative analysis on 10 sustainability solutions, leading to the identification of the most effective options.
  - Created and delivered a fitment matrix to the client, identifying the top 3 high-impact sustainability solutions.

## Projects

- 3. Data Analysis of Olympic Athletes Performance** December 2023 – May 2024
  - Examined data from over 271,116 Olympic athletes, boosting prediction accuracy by 20%.
  - Shared findings using MySQL, Python, and Power BI for data processing, visualization, Advance Analytics.
  - Deployed machine learning algorithms (**Linear Regression**, **SVM**, and **Random Forest**) develop models that identified key performance, improving performance, continuous learning, facilitated team meetings to discuss insights.
  - Constructed and presented interactive dashboards for real-time performance monitoring.
  - Led exploratory data analysis (**EDA**) to identify 5 key factors influencing athlete performance in Olympic games. Worked closely with cross-functional teams to interpret data findings and provide insights.
  - Identified **quality risk identification** and implemented solutions, improving data integrity.
- 4. Chicago Crime Data Analysis** June 2023 – November 2023
  - Collaborated 1,048,575 rows of crime data to uncover trends and patterns.
  - Applied **KNN**, **Decision Tree**, and Naive Bayes algorithms, achieving an 85% accuracy rate in prediction.
  - Reduced data processing time by 40% through optimized data handling techniques.
  - Conducted Time Series analysis and Principal Component Analysis (PCA) to identify patterns and reduce dimensionality by 25%, data exchange protocols to integrate disparate data sources.
  - Generated detailed reports and visualizations, presenting to a 30% increase in data-driven policy efficiency.

## Achievements

- Awarded second prize in a university-level competition with Secured place out of 50 plus participants for a poster presentation on the **Statistical Analysis of Depression Among College Students**.
- **Demonstrated** expertise in statistical analysis, Python programming, and data mining through presentations to the NAAC committee. **Utilized** data visualization and machine learning algorithms to highlight key insights.

## Skills

- **Programming Languages:** Python, R, **SQL**.
- **Data Analysis & Visualization:** Excel, **Power BI**, **Minitab**.
- **Tools:** GitHub, PyCharm, Streamlit, Visual Studio Code, Microsoft Office applications, Jupyter Notebook,
- **Soft Skills:** Communication, Collaboration, Teamwork, Project Management, Deadline Management
- **Languages Known:** English, Hindi, Marathi.

## Certifications

- Data Science with R, Basic Deep Learning, Business Analysis with excel - Simplilearn.
- Machine Learning Engineer and AI Analyst- Symbiosis Skill and Professional University.

