

Archana Chinchole

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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
 - Enhanced datasets for NAAC accreditation using **Python**, **Flask**, **Excel**, and **machine learning**, enhancing data accuracy by 30%
 - Developed and implemented data strategies, increasing statistical model efficiency by 25%.
 - Initiated and optimized data evaluation processes, reducing manual effort by 40%.
 - Created and maintained interactive dashboards to monitor key performance metrics.
 - Presented 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
 - Analyzed data from over 271,116 Olympic athletes, boosting prediction accuracy by 20%.
 - Communicated findings using MySQL, Python, and Power BI for data processing, visualization, Advance Analytics.
 - Applied 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.
 - Developed and shared interactive dashboards for real-time performance monitoring.
 - Facilitated 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.
 - Conducted **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.
 - Implemented **KNN**, **Decision Tree**, and Naive Bayes algorithms, achieving an 85% accuracy rate in prediction.
 - Streamlined data processing time by 40% through optimized data handling techniques.
 - Performed Time Series analysis and Principal Component Analysis (PCA) to identify patterns and reduce dimensionality by 25%, data exchange protocols to integrate disparate data sources.
 - Produced 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.