# Archana Chinchole

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## Education

- **M.sc (Master's Degree in Statistics)**                    June 2022 – June 2024
  Savitribai Phule Pune University                              CGPA - **8.05**

**Relevant Coursework**: Advanced Statistical Methods, Data Mining, Survey Design, **Statistical Inference**, Operation Research.

- **B.sc (Bachelor's degree Actuarial Sciences)**          June 2019 – June 2022
  North Maharashtra University                                 CGPA - **7.53**

**Relevant Coursework:** Probability Theory, Financial Mathematics, Risk Management, Sample Design, Universe Estimation.

## Internship Experience

### 1. IEduVibhu: Analytics Trainee                    December 2023 – January 2024

- Analyzed 500 datasets for NAAC accreditation using Python, Flask, Excel, and machine learning, ensuring data validation and improving data accuracy by 30%.
- Automated input data quality checks and production processes, including data validation, reducing manual effort by 40% and enhancing process efficiency.
- Collaborated with onshore operations teams to improve cross-department cooperation and streamline insights, utilizing statistical estimation and reference data for deeper client insights.
- Investigated data queries and provided actionable solutions, focusing on clean data for improved client insights.

### 2. Forage: Intern, ESG Virtual Experience Program          March **2023 – April 2023**

- Conducted a thorough analysis of sustainability solutions using root cause analysis and automation tools such as R and Python to enhance process automation and identify top performers.
- Developed a fitment matrix to present business process improvements and automated operations processes, ensuring consistency in production environments and regional/global markets.

## Projects

### 3. Data Analysis of Olympic Athletes Performance          December 2023 – May 2024

- Conducted comprehensive analysis on athlete performance data using MySQL, Python, and Power BI, ensuring **data accuracy**, **data validation**, and clean **reference data** for insights across various regional markets.
- Applied **machine learning** algorithms for performance prediction, focusing on **process automation** and increasing **accuracy** by 20%, ensuring high-quality **production processes**.
- Ensured **cross-department cooperation** with teams across **regional and global markets** to validate data trends and deliver accurate insights.
- Handled complex data queries to provide **client insights** into key performance factors, improving overall decision-making.

### 4. Chicago Crime Data Analysis| Data Scientist          June 2023 – November 2023

- Applied **machine learning** models (KNN, Decision Trees, Naive Bayes) and **statistical estimation** techniques to analyze crime patterns with 85% accuracy, supporting **client insights**.
- Utilized **automation tools** and implemented efficient processes to enhance analysis with **time series analysis** and PCA, improving reporting accuracy for **onshore and offshore operations**.
- Focused on **production environments** to ensure that data validation processes were in place, providing accurate insights for **regional and global markets**.

### 5. Image Recognition Project Using CNN                    May 2024 – July 2024

- Developed a **Convolutional Neural Network (CNN)** using TensorFlow and Keras for image categorization with 90% accuracy, automating the **production process** using **Excel Macros**.
- Incorporated **artificial intelligence** techniques for improved model training, ensuring efficient handling of large datasets with automation across **regional and global markets**.
- Focused on **process automation**, ensuring **data accuracy** and **validation** in high-demand **production environments**, supporting both **onshore** and **offshore operations**.

## Achievements

- Secured second place in a university-level competition for a poster presentation on the Statistical Analysis of Depression Among College Students, showcasing expertise in **statistical estimation** and **client insights**.
- Demonstrated proficiency in **process automation**, **data validation**, and **cross-department collaboration** through presentations to the NAAC committee, driving improvements in **data accuracy** and **process efficiency**

## Skills

- **Programming Languages:** Python, R, **SQL**.
- **Data Analysis & Visualization**: Excel, Power BI, Minitab.
- **Soft Skills:** Communication, Collaboration, Adaptability.
- **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.