# 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 Power BI dashboards** to monitor key performance metrics, contributing to a 15% improvement in project outcomes.
   - Spearheaded evaluation processes, reducing manual effort by 40%.
   - Delivered insights to senior management.

2. **Forage: Intern,** ESG Virtual Experience Program        March **2023 – April 2023**
   - Analyzed and assessed client needs to perform a comparative analysis of 10 sustainability solutions.
   - Developed and presented a fitment matrix, highlighting the top 3 high-impact sustainability solutions.

## Projects

3. **Data Analysis of Olympic Athletes Performance**        **December 2023 – May 2024**
   - Conducted a comprehensive analysis of data from over 271,116 Olympic athletes, increasing prediction accuracy by 20%.
   - **Created interactive Power BI dashboards** for real-time performance tracking.
   - Managed data processing and visualization using MySQL, Python, and Power BI for advanced analytics.
   - Performed exploratory data analysis (EDA) to uncover 5 crucial factors influencing athlete performance.

4. **Chicago Crime Data Analysis**                          **June 2023 – November 2023**
   - Analyzed over 1,048,575 rows of crime data to reveal patterns and trends.
   - Applied KNN, Decision Tree, and Naive Bayes algorithms, achieving an 85% prediction accuracy.
   - **Optimized Power BI reports** for performance, reducing processing time by 40%.
   - Utilized time series analysis and PCA to detect patterns and reduce dimensionality by 25%.
   - Generated comprehensive reports and visualizations, contributing to a 30% enhancement in data-driven policy-making.

## 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**.
- **Power BI**: Creating reports & dashboards, DAX, M query language, Dataset Refresh, Performance optimization.
- **Tools:** GitHub, PyCharm, Streamlit, Visual Studio Code, Microsoft Office applications, Jupyter Notebook.
- **Machine Learning & AI**: TensorFlow, Keras, PyTorch, Scikit-learn, NLP, Gen AI
- **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.