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, Machine Learning, 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.

# Internship Experience

## IEduVibhu: Analytics Trainee December 2023 – January 2024

* **Problem Statement:** Enhance data accuracy for NAAC accreditation and improve statistical model efficiency.
* Assessed datasets for NAAC accreditation using **Python,** Flask**, Excel**, and machine learning, enhancing data accuracy by 30%. Spearheaded the development and **implementation** ofdata strategies that improved statistical model efficiency by 25%, facilitating better decision-making.
* Initiated and **Initiated** data evaluation processes, reducing manual effort by 40% and increasing overall productivity. **Presented** insights and findings to **senior management**, contributing to a 15% improvement in project outcomes. Developed and maintained dashboards to monitor and track key performance metrics.

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

•Conducted thorough analysis and understanding of client needs and performed comparative analysis on 10 sustainability solutions, leading to the identify the most effective options.

•Created and delivered a fitment matrix to the client, identifying the top 3 high-impact sustainability solutions.

# Projects

## Data Analysis of Olympic Athletes Performance December 2024 – May 2024

* **Problem Statement:** Analyze and improve the prediction accuracy of Olympic athletes' performance.
* Analyzed data from over 271,116 Olympic athletes, **boosting** prediction accuracy by 20%.
* **Implemented Sample Design:** Applied **sample design** techniques and **universe estimation** to enhance the accuracy of athlete performance predictions.
* **Executed Design-related Projects:** Developed predictive models using **machine learning algorithms** (Linear Regression, SVM, Random Forest), improving **prediction accuracy** by 20%.
* **Engaged Stakeholders:** Presented findings through interactive dashboards using Power BI, effective **data exchange** and insights. **identifying opportunities for innovation** in data visualization, reporting and **presentations.**
* Conducted **exploratory data analysis (EDA)** to identify 5 key factors influencing athlete performance in Olympic games. Collaborated with cross-functional teams to **interpret** data findings and **provide** insights

## Chicago Crime Data Analysis June 2023 – November 2023

* **Problem Statement:** Uncover trends and patterns in Chicago crime data to inform policy-making.
* Collaborated 1,048,575 datasets to uncover trends, applying **sample design** techniques to ensure data accuracy.
* Implemented KNN, Decision Tree, and Random Forest algorithms, achieving an 85% accuracy rate prediction.
* Streamlined data processing time by 40% with optimized handling techniques in Python, SQL, Excel.
* Produced Time Series analysis and Principal Component Analysis (PCA) to identify patterns and reduce dimensional by 25%. 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, and data mining through presentations to the NAAC committee. **Utilized** data visualization and machine learning algorithms to highlight key insights.

# Skills

* + **Technical Skills:** Python, R, **SQL**, Excel, Power BI, Minitab.
  + **Tools:** GitHub, PyCharm, Streamlit, Visual Studio Code, Microsoft Office applications.
  + **Soft Skills:** Communication, Collaboration, Adaptability, Teamwork, Time 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.

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