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

* Enhanced datasets for NAAC accreditation using **Python,** Flask**, Excel**, and machine learning, improving 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.

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

•Conducted comprehensive analysis and understanding of client needs and 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

## 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 and visualization.
* Applied machine learning algorithms (Linear Regression, SVM, and Random Forest) develop models that identified key performance trends, improving performance, facilitated team meetings to discuss insights.
* Developed and shared interactive dashboards for real-time performance monitoring.
* Conducted 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.

## 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 Random Forest 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%.
* 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, 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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