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

## IEduVibhu: Analytics Trainee December 2023 – January 2024

* Analyzed 500 datasets for NAAC accreditation using Python, Flask, Excel, and machine learning, enhancing data accuracy by 30%. Improved data strategies, increasing the efficiency of statistical models by 25%.
* Automated evaluation processes, reducing manual effort by 40% and boosting productivity. Presented insights to senior management, leading to better project outcomes.

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 to identify the most effective options.

• Developed and presented a **fitment matrix** to the client, showcasing the **top 3** sustainability solutions with

the highest potential for impact, contributing to a shared vision.

# Projects

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

* Performed detailed analysis on athlete performance data using MySQL, Python, and Power BI, generating data-driven reports for stakeholders.
* Applied machine learning algorithms (Linear Regression, SVM, Random Forest) to enhance performance prediction accuracy, improving key performance indicators (KPIs) by 20%.
* Conducted quantitative analysis to derive actionable insights, presented via data visualization in Power BI to project managers and business stakeholders.

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

* Applied machine learning (KNN, Decision Trees, Random Forest) and statistical models to identify crime patterns with an 85% accuracy rate.
* Utilized time series analysis and PCA to uncover hidden trends, improving data interpretation and reporting accuracy.
* Collaborated with a cross-functional team using agile methodologies to deliver insights that informed city planning and policy decisions.

1. **Image Recognition Project Using CNN May 2024 – July 2024**

* Developed a Convolutional Neural Network (CNN) using TensorFlow and Keras to categorize images with 90% accuracy.
* Managed project timelines using schedule planning and applied problem-solving skills to handle dynamic challenges in model training.
* Collaborated with a team to enhance commercial applications for image recognition.

# Achievements

* Secured second place in a university-level competition for a poster presentation on the Statistical Analysis of Depression Among College Students, out of 50+ participants.
* Demonstrated expertise in statistical analysis, Python programming, and data mining through 5 presentations to the NAAC committee, utilizing 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, Jupyter Notebook
  + **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.