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

* Developed **predictive models** using machine learning techniques like **Random Forest, KNN, and SVM** to forecast athlete performance, resulting in a 20% improvement in prediction accuracy.
* Applied **multivariate statistical modeling** methods, including **clustering and regression**, to uncover hidden patterns in the data.
* Delivered insights and recommendations to project stakeholders, effectively communicating complex data-driven findings to both technical and non-technical audiences using **Tableau** and **Power BI**.
* Collaborated with cross-functional teams following the **Agile methodology** to drive timely project completion.

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

* Developed **time-series forecasting** models to analyse and predict crime trends, significantly improving the accuracy of reports by 85%. Leveraged machine learning models like **Boosting and Bagging** techniques to enhance predictive performance.
* Applied **principal component analysis (PCA)** and **factor analysis** to reduce data dimensionality while maintaining key information.
* Worked with stakeholders across the city to translate complex analytics into operational insights, using tools like **Looker** for **data visualization**.
* Ensured all code and methodology were well-documented and reusable for future analysis and **best practices.**

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

* Built a deep learning model using **Convolutional Neural Networks (CNN)** in **TensorFlow** to classify images, achieving an accuracy rate of 90%. Integrated with **cloud platforms (GCP)** to scale the model and perform high-speed data processing for real-time image classification.
* Applied advanced **neural network** architectures to enhance model precision and trained the model using diverse datasets. Conducted data visualization using **D3.js** and **R Shiny**, creating intuitive dashboards to visualize model performance.
* Collaborated in an agile team environment, tracking progress and managing multiple tasks to meet tight deadlines while ensuring a smooth workflow across the **retail industry** domain.

# 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.