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, 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**

# Projects

## Sports Data Analysis: Olympic Athletes PerformanceDecember 2023 – May 2024

* Managed **data processing** and visualization for over 271,000 Olympic athletes, ensuring **data accuracy** and reliability for decision-making.
* Built **predictive models** using machine learning algorithms (SVM, Random Forest), increasing prediction accuracy by 20%.
* Organized and prepared **large datasets** using **MySQL** and **Python** for deeper analysis, leading to insights that improved performance.
* Collaborated with cross-functional teams to implement **data automation processes**, optimizing workflow efficiency.

## Chicago Crime Data Analysis June 2023 – November 2023

* Processed 1,048,575 rows of crime data, identifying key trends and patterns through **machine learning** and **predictive modeling**.
* Applied algorithms like KNN, Decision Tree, and Random Forest, resulting in 85% accuracy, while maintaining **data quality** throughout the project.
* **Automated data processing** to streamline operations, reducing manual efforts by 40% and improving overall project productivity.
* Created detailed **data-driven reports** and visualizations, aiding in effective **data analysis** and decision-making.

# Internship Experience

## IEduVibhu: Analytics Trainee December 2023 – January 2024

* Assessed and processed datasets for NAAC accreditation using **Python** and **Flask**, achieving a 30% improvement in **data accuracy**.
* Led the development of **data pipelines** for statistical model efficiency, improving outcomes by 25%.
* Automated **data evaluation processes**, reducing manual tasks by 40% and improving productivity.
* Presented **data-driven insights** to senior management, contributing to a 15% improvement in overall project results.

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

• Conducted comparative analysis of 10 sustainability solutions, identifying and recommending high-impact options to clients.

• Created and delivered a fitment matrix, aligning client needs with optimal solutions for greater business impact.

# 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.
  + **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.