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

* Enhanced data accuracy for NAAC accreditation by 30% using Python, Flask, and machine learning techniques.
* Refined data strategies and automated evaluation processes, reducing manual effort by 40% and improving model efficiency by 25%. Presented actionable insights to senior management, facilitating improved project outcomes and strategic decisions.

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

* Conducted comparative analysis of 10 sustainability solutions to identify the most impactful options.
* Developed and presented a fitment matrix highlighting top sustainability solutions, contributing to client decision-making and project alignment.

# Projects

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

* **Analyzed** performance data of 1,000 Olympic athletes using MySQL, Python, and Power BI to derive insights and enhance strategies. **Applied** machine learning algorithms (Linear Regression, SVM, Random Forest) to refine predictive models, boosting KPI accuracy by 20%.
* **Executed** root cause analysis and optimization to increase model accuracy by 25% and delivered innovative solutions for identifying performance trends.
* **Developed** advanced data visualization techniques and **created** detailed work instructions for data labeling to improve presentation clarity by 30%.

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

* **Conducted** comprehensive crime data analysis using KNN, Decision Tree, and Random Forest algorithms with 85% accuracy. **Uncovered** data patterns through time series analysis and PCA, reducing dimensionality by 40% and **enhanced** model precision by 20% using agile methodologies.
* **Utilized** robust statistical methods for model performance evaluation and troubleshooting, contributing to improved decision-making processes.

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

* **Designed** a Convolutional Neural Network (CNN) to categorize images with 90% accuracy from a dataset of 50,000 images. **Optimized** the CNN using TensorFlow and Keras, **boosting** model performance by 15% and **ensuring** efficient training and deployment.
* **Managed** project timelines and workflow efficiency through rigorous testing and SOP integration, **improving** task management by 25%.

# 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, **Database Management:** SQL, NoSQL.
  + **Data Analysis & Visualization**: Excel, Power BI, Minitab, Advanced Data Visualization Techniques.
  + **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.