

Archana Chinchole

Email:archanachinchole6@gmail.com | Contact:+919823601974 | Address : Nandurbar, Maharashtra

[LinkedIn](#) | [Github](#)

Education

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| ▪ M.Sc Statistics
Savitribai Phule Pune University | June 2022 – June 2024
CGPA - 8.05 |
| Relevant Coursework: Advanced Statistical Methods, Data Mining, Survey-based Research, Time Series Analysis . | |
| ▪ B.Sc Actuarial Sciences
North Maharashtra University | June 2019 – June 2022
CGPA - 7.53 |
| Relevant Coursework: Probability Theory, Financial Mathematics, Statistical Inference, Risk Management, Sample Design, Universe Estimation | |

Projects

- 1. Sports Data Analysis: Olympic Athletes Performance** **December 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.
- 2. 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

- 3. 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.
- 4. 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.

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