

Archana Chinchole

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

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

Internship Experience

1. **IEduVibhu: Analytics Trainee** December 2023 – January 2024
 - **Refined datasets** for NAAC accreditation using Python, Flask, Excel, and machine learning, enhancing data accuracy by 30%.
 - **Formulated and executed** data strategies, increasing statistical model efficiency by 25%.
 - **Spearheaded evaluation processes**, reducing manual effort by 40%.
 - **Constructed and updated** interactive dashboards to monitor key performance metrics.
 - **Delivered insights** to senior management, contributing to a 15% improvement in project outcomes.
2. **Forage: Intern, ESG Virtual Experience Program** March 2023 – April 2023
 - **Analyzed and assessed** client needs to perform a comparative analysis of 10 sustainability solutions, identifying the most effective options.
 - **Developed and presented** a fitment matrix, highlighting the top 3 high-impact sustainability solutions.

Projects

3. **Data Analysis of Olympic Athletes Performance** December 2023 – May 2024
 - Conducted a comprehensive analysis of data from over 271,116 Olympic athletes, increasing prediction accuracy by 20%.
 - Leveraged ML algorithms (Linear Regression, SVM, Random Forest) to build models identifying key performance.
 - Performed exploratory data analysis (EDA) to uncover 5 crucial factors influencing athlete performance.
 - Managed data processing and visualization using MySQL, Python, and Power BI for advanced analytics.
 - Created and deployed interactive dashboards to facilitate real-time performance tracking.
 - Identified and mitigated quality risks, bolstering data integrity.
4. **Chicago Crime Data Analysis** June 2023 – November 2023
 - Analyzed over 1,048,575 rows of crime data to reveal patterns and trends.
 - Applied KNN, Decision Tree, and Naive Bayes algorithms, achieving an 85% prediction accuracy.
 - Optimized data handling processes, reducing processing time by 40%.
 - Utilized time series analysis and principal component analysis (PCA) to detect patterns and reduce dimensionality by 25%. Executed machine learning tests and fine-tuned models based on test results.
 - Generated comprehensive reports and visualizations, contributing to a 30% enhancement in data-driven policy-making.

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.

