

Archana Chinchole

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

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.
- 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
 - Analyzed performance data of 1,000 Olympic athletes using MySQL, Python, and Power BI, deriving actionable insights to enhance team strategies.
 - Applied machine learning algorithms (Linear Regression, SVM, Random Forest) to refine predictive models, resulting in a 20% improvement in key performance indicators (KPIs).
 - Led root cause analysis and task execution to boost model accuracy by 25%, delivering innovative solutions to identify performance trends. Implemented detailed work instructions for data labeling and used speech analysis to present findings, improving presentation clarity by 30%.
- Chicago Crime Data Analysis | Data Scientist** June 2023 – November 2023
 - Executed comprehensive crime data analysis in Chicago, applying KNN, Decision Tree, and Random Forest algorithms with an 85% accuracy rate.
 - Conducted root cause analysis and utilized time series analysis along with principal component analysis (PCA) to uncover patterns, reducing data dimensionality by 40%. Employed agile methodologies to increase model correctness by 20%, leading to more accurate predictions and enhanced decision-making processes.
- Image Recognition Project Using CNN** May 2024 – July 2024
 - Developed a Convolutional Neural Network (CNN) for image categorization, achieving a 90% accuracy rate across 50,000 images. Optimized the neural network using TensorFlow and Keras, improving model performance by 15% through precise training techniques.
 - Managed project timelines effectively through detailed schedule planning, ensuring timely delivery and a 20% increase in workflow efficiency. Conducted rigorous testing and integrated Standard Operating Procedures (SOPs), enhancing project workflow and 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, **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.