

# Archana Chinchole

Email:[archanachinchole6@gmail.com](mailto:archanachinchole6@gmail.com) | Contact: +919823601974 | Address : Nandurbar, Maharashtra

[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
  - 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.
- 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.
- 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.