Archana Chinchole

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LinkedIn | Github

Education

- **M.sc (Master's Degree in Statistics)** **August 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 in Actuarial Sciences)** **August 2019 – July 2022**
  North Maharashtra University CGPA - **7.53**

Relevant Coursework: Probability Theory, Financial Mathematics, Risk Management, Sample Design, Universe Estimation**.**

Internship Experience

1. IEduVibhu: Analytics Trainee **December 2023 – January 2024**

- Enhanced the accuracy of 500 datasets by 30% using **Python**, **pandas**, and **NumPy**, aligning with **NAAC accreditation** requirements.
- Automated data processing workflows, reducing manual effort by 40% through the use of **Git**, **VS Code**, and **Jupyter Notebooks**.
- Collaborated with senior management to develop statistical models that improved decision-making efficiency by 25%.

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

- Conducted comparative analysis of sustainability solutions, focusing on large datasets with **data manipulation** techniques.
- Delivered a **fitment matrix** using **problem-solving** skills, recommending top sustainability options based on **regression** and **classification** techniques.

Projects

3. Data Analysis of Olympic Athletes Performance **December 2023 – May 2024**

- Implemented **machine learning** algorithms including **KNN**, **Decision Tree**, and **Naive Bayes**, improving prediction accuracy by 20%.
- Utilized **TensorFlow** and **PyTorch** for developing **neural networks**, enhancing performance metrics by 15%.
- Managed data analysis and visualization with **pandas**, **NumPy**, and **Jupyter Notebooks**, ensuring timely project completion.

4. Chicago Crime Data Analysis| Data Scientist **June 2023 – November 2023**

- Applied **SVM**, **Random Forest**, and **clustering** techniques to uncover crime trends and enhance predictive models by 20%.
- Used **Time Series Analysis** and **Principal Component Analysis (PCA)** to identify patterns across multi-country datasets.
- Optimized workflows by integrating advanced **AI/ML frameworks** to reduce analysis time by 25%.

Achievements

- Secured second prize for a poster presentation on "Statistical Analysis of Depression Among College Students," demonstrating expertise in **statistical analysis**, **machine learning**, and data visualization.
- Delivered 5 comprehensive presentations on data strategies and analytics to the NAAC committee, leveraging **data structures** and **algorithms** to provide actionable insights.

Skills

- **Programming Languages:** Python, R, **SQL**.
- **Data Analysis & Visualization**: Excel, Power BI, Minitab.
- **Machine Learning & AI**: Supervised & Unsupervised Learning, Classification, Regression, Neural Networks, Clustering, Foundation Models, Large Language Models.
- **Data Analysis**: Pandas, NumPy, Data Manipulation, Linear Algebra, Probability, Statistics.
- **AI/ML Frameworks**: TensorFlow, PyTorch, Deep Learning.
- **Tools**: VS Code, Jupyter Notebooks, Git
- **Soft Skills**: Communication, Teamwork, Project Management, Prioritization, dedication
- **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.