Archana Chinchole

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

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**
   - Directed model risk management processes, achieving a 30% increase in dataset accuracy.
   - Executed machine learning algorithms and data manipulation on 250,000+ records using Python and Flask for NAAC accreditation datasets, enhancing data accuracy by 30%
   - Engineered supervised learning and unsupervised learning techniques, enhancing model efficiency by 25%.
   - Designed interactive dashboards for real-time performance monitoring, resulting in a **20%** improvement in decision-making efficiency, and presented insights to **7** senior management members.
   - Instituted to reducing manual effort by 40% through process optimization.

2. **Forage: Intern, ESG Virtual Experience Program**   March **2023 – April 2023**
   - Conducted **AI/ML research** on sustainability solutions, identifying the top 3 high-impact options.
   - Created a fitment matrix for client evaluation, leading to a significant improvement in decision-making.

Projects

3. **Data Analysis of Olympic Athletes Performance**   **December 2023 – May 2024**
   - Analyzed data of over 271,116 athletes, **increasing** prediction accuracy by 20% using **advanced statistical techniques** and **machine learning algorithms** (Linear Regression, SVM, Random Forest).
   - Leveraged Python and Power BI to process and visualize **over 1 million data points**, leading to a **25%** reduction in data processing time and improved analytics.
   - Pinpointed key performance factors through exploratory data analysis (EDA) on **500,000+ records**, and communicated actionable insights to **3 cross-functional teams**, increasing project efficiency by **15%**..

4. **Chicago Crime Data Analysis**   **June 2023 – November 2023**
   - Processed and **examined** 1,048,575 rows of crime data to uncover patterns using **time series analysis** and **PCA**.
   - Achieved 85% prediction accuracy through the application of **KNN**, **Decision Trees**, and **Naive Bayes** algorithms.
   - Refined data processing time by 40% and improved data-driven policy efficiency by 30%.

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.

Skills

Technical Skills:
- Programming Languages: Python, R, SQL.
- **Machine Learning & AI:** Gen AI, NLP, NLU, Deep Learning, Text Mining, Supervised and Unsupervised Learning, Neural Networks, Decision Trees, Random Forest, Gradient Boosting, Bayesian Models.
- Data Analysis & Visualization: Power BI, Excel, Minitab, MySQL.
- Tools: GitHub, PyCharm, Streamlit, Visual Studio Code, Jupyter Notebook.
- Model Risk Management: Conceptual Soundness, Model Validation, Regulatory Compliance, Model Accuracy, Risk Controls.

Soft Skills: Communication**,** Collaboration**,** Leadership**,** Decision-Making**,** Learning Agility**,** Project Management.
Languages: 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.