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**

- Managed and optimized model risk management processes, leading to a 30% increase in dataset accuracy.
- Conducted machine learning and data manipulation on NAAC accreditation datasets using Python, Flask, and Big Data tools such as Hive and Spark.
- Implemented supervised and unsupervised learning techniques, improving model efficiency by 25%.
- Developed interactive dashboards for real-time performance monitoring in Power BI, leading to a 40% reduction in manual effort.
- Presented insights to senior management, contributing to a 15% improvement in project outcomes.

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 using advanced analytics, significantly improving decision-making accuracy.

Projects

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

- Analyzed data of over 271,116 athletes, enhancing prediction accuracy by 20% using advanced statistical techniques, regression analysis, and machine learning algorithms (Linear Regression, SVM, Random Forest).
- Utilized Python, Spark, and Power BI for large-scale data processing, visualization, and advanced analytics.
- Identified key performance factors through exploratory data analysis (EDA) and presented findings to cross-functional teams.

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

- Processed and analyzed 1,048,575 rows of crime data using Hadoop, Hive, and Spark to uncover patterns through time series analysis and PCA.
- Achieved 85% prediction accuracy by applying KNN, Decision Trees, and Naive Bayes algorithms, reducing data processing time by 40% and enhancing 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. **Utilized** data visualization and machine learning algorithms to highlight key insights.

Skills

- **Programming Languages:** Python, R, **SQL**.
- **Big Data & Data Processing:** Hadoop, Hive, Spark, MySQL.
- **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, Regression Analysis
- **Data Analysis & Visualization:** Power BI, Tableau, Excel, Minitab, Data Wrangling, Data Cleaning, EDA (Exploratory Data Analysis).
- **Tools:** GitHub, PyCharm, Streamlit, Visual Studio Code, Jupyter Notebook, Tableau, Apache Hive, Apache Spark
- **Statistical Techniques:** Hypothesis Testing, Regression Analysis, T-test, Chi-square Test, Time Series Analysis, PCA (Principal Component Analysis)
- **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.