Archana Chinchole

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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**

- Refined datasets for NAAC accreditation using Python, Flask, Excel, and machine learning, enhancing data accuracy by 30%.
- Formulated and executed data strategies, increasing statistical model efficiency by 25%.
- Spearheaded evaluation processes, reducing manual effort by 40%.
- Constructed and updated interactive dashboards to monitor key performance metrics.
- Delivered insights to senior management, contributing to a 15% improvement in project outcomes.

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

- Analyzed and assessed client needs to perform a comparative analysis of 10 sustainability solutions, identifying the most effective options.
- Developed and presented a fitment matrix, highlighting the top 3 high-impact sustainability solutions.

Projects

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

- Conducted a comprehensive analysis of data from over 271,116 Olympic athletes, increasing prediction accuracy by 20%.
- Leveraged ML algorithms (Linear Regression, SVM, Random Forest) to build models identifying key performance.
- Performed exploratory data analysis (EDA) to uncover 5 crucial factors influencing athlete performance.
- Managed data processing and visualization using MySQL, Python, and Power BI for advanced analytics.
- Created and deployed interactive dashboards to facilitate real-time performance tracking.
- Identified and mitigated quality risks, bolstering data integrity.

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

- Analyzed over 1,048,575 rows of crime data to reveal patterns and trends.
- Applied KNN, Decision Tree, and Naive Bayes algorithms, achieving an 85% prediction accuracy.
- Optimized data handling processes, reducing processing time by 40%.
- Utilized time series analysis and principal component analysis (PCA) to detect patterns and reduce dimensionality by 25%. Executed machine learning tests and fine-tuned models based on test results.
- Generated comprehensive reports and visualizations, contributing to a 30% enhancement in data-driven policy-making.

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**.
- **Data Analysis & Visualization**: Excel, **Power BI**, **Minitab**.
- **Tools:** GitHub, PyCharm, Streamlit, Visual Studio Code, Microsoft Office applications, Jupyter Notebook.
- **Machine Learning & AI**: TensorFlow, Keras, PyTorch, Scikit-learn, NLP, Gen AI
- **Soft Skills:** Communication, Collaboration, Teamwork, Project Management, Deadline Management
- **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.