Archana Chinchole

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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

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

- Analyzed 500 datasets for NAAC accreditation using Python, Flask, Excel, and machine learning, enhancing data accuracy by 30%. Improved data strategies, increasing the efficiency of statistical models by 25%.
- Automated evaluation processes, reducing manual effort by 40% and boosting productivity. Presented insights to senior management, leading to better project outcomes.

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

- Conducted thorough analysis and understanding of client needs and performed **comparative analysis** on 10 sustainability solutions to identify the most effective options.
- Developed and presented a **fitment matrix** to the client, showcasing the **top 3** sustainability solutions with the highest potential for impact, contributing to a shared vision.

Projects

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

- Designed and maintained **data pipelines** for extracting and transforming athlete performance data using MySQL and Python, generating reports for analysis.
- Applied machine learning algorithms (Linear Regression, SVM, Random Forest) to improve **performance prediction** accuracy by 20%.
- Developed **data visualizations** in Power BI, presenting insights to project managers and stakeholders.

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

- Built machine learning models (KNN, Decision Trees, Random Forest) with an accuracy rate of 85% to identify crime trends.
- Utilized time series analysis and PCA for uncovering patterns, contributing to city planning decisions.
- Collaborated with a team using agile methodologies to optimize **data systems** and enhance project outcomes.

5. Image Recognition Project Using CNN **May 2024 – July 2024**

- Developed a Convolutional Neural Network (CNN) using TensorFlow and Keras, achieving 90% accuracy in image categorization.
- Managed **model training** and deployment for efficiency, ensuring high **model performance** and **data quality**.
- Collaborated with a team to integrate the model into existing systems, documenting the entire development process for **reproducibility**.

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, **SQL**.
- **Data Analysis & Visualization**: Excel, Power BI, Minitab, Large Dataset Analysis, Data Manipulation
- **Tools:** GitHub, PyCharm, Streamlit, Visual Studio Code, Jupyter Notebook
- **Machine Learning & Model Development**: TensorFlow, Keras, scikit-learn, CNN, SVM, Random Forest, Model Training
- **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.