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**
   - Analyzed performance data of Olympic athletes to derive insights using MySQL, Python, and Power BI.
   - Applied machine learning algorithms (Linear Regression, SVM, Random Forest) to improve predictive models, enhancing key performance indicators (**KPIs**) by 20%.
   - Led root cause analysis and task execution to improve model accuracy and provide innovative solutions for performance trends.
   - Implemented work instructions for conducting data labeling and visualized findings using speech analysis to present results effectively.

4. **Chicago Crime Data Analysis| Data Scientist** **June 2023 – November 2023**
   - Executed crime data analysis in Chicago, applying machine learning algorithms (KNN, Decision Tree, Random Forest) with 85% accuracy.
   - Performed root cause analysis alongside time series and principal component analysis (PCA) to uncover patterns and reduce dimensionality. Utilized agile methodologies to improve model correctness and accuracy.

5. **Image Recognition Project Using CNN** **May 2024 – July 2024**
   - Developed a Convolutional Neural Network (CNN) to categorize images with 90% accuracy.
   - Utilized TensorFlow and Keras to optimize the neural network, ensuring close in model training, improving performance by 15%. Managed project timelines using **schedule** planning to meet environment.
   - Carried out rigorous testing and integrated SOPs to improve project workflow and task management.

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.
- **Tools:** GitHub, PyCharm, Streamlit, Visual Studio Code, Jupyter Notebook
- **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.