Archana Chinchole

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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**

- Developed **predictive models** using machine learning techniques like **Random Forest, KNN, and SVM** to forecast athlete performance, resulting in a 20% improvement in prediction accuracy.
- Applied **multivariate statistical modeling** methods, including **clustering and regression**, to uncover hidden patterns in the data.
- Delivered insights and recommendations to project stakeholders, effectively communicating complex data-driven findings to both technical and non-technical audiences using **Tableau** and **Power BI**.
- Collaborated with cross-functional teams following the **Agile methodology** to drive timely project completion.

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

- Developed **time-series forecasting** models to analyse and predict crime trends, significantly improving the accuracy of reports by 85%. Leveraged machine learning models like **Boosting and Bagging** techniques to enhance predictive performance.
- Applied **principal component analysis (PCA)** and **factor analysis** to reduce data dimensionality while maintaining key information.
- Worked with stakeholders across the city to translate complex analytics into operational insights, using tools like **Looker** for **data visualization**.
- Ensured all code and methodology were well-documented and reusable for future analysis and **best practices.**

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

- Built a deep learning model using **Convolutional Neural Networks (CNN)** in **TensorFlow** to classify images, achieving an accuracy rate of 90%. Integrated with **cloud platforms (GCP)** to scale the model and perform high-speed data processing for real-time image classification.
- Applied advanced **neural network** architectures to enhance model precision and trained the model using diverse datasets. Conducted data visualization using **D3.js** and **R Shiny**, creating intuitive dashboards to visualize model performance.
- Collaborated in an agile team environment, tracking progress and managing multiple tasks to meet tight deadlines while ensuring a smooth workflow across the **retail industry** domain.

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.