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%. Refined data strategies, increasing statistical model efficiency by 25%.
- Automated evaluation processes, cutting manual effort by 40% and boosting productivity. Presented insights to senior management, leading to improved project outcomes.

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

- Evaluated 10 sustainability solutions to identify the most effective options.
- Created and presented a fitment matrix to the client, highlighting the top 3 sustainability solutions with the highest impact potential.

Projects

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

- Investigated performance data of 1,000 Olympic athletes using MySQL, Python, and Power BI, deriving actionable insights to enhance team strategies.
- Employed machine learning algorithms (Linear Regression, SVM, Random Forest) to improve predictive models, resulting in a 20% increase in KPIs.
- Conducted in-depth analysis to enhance model accuracy by 25%, providing innovative solutions for identifying performance trends. Developed detailed work instructions for data labeling and used speech analysis to present findings, improving presentation clarity by 30%.

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

- Executed crime data analysis using KNN, Decision Tree, and Random Forest algorithms, achieving an 85% accuracy rate. Performed time series analysis and PCA to uncover patterns and reduce data dimensionality by 40%.
- Utilized agile methodologies to improve model correctness by 20%, enhancing decision-making accuracy.

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

- Designed a Convolutional Neural Network (CNN) for image categorization, achieving a 90% accuracy rate across 50,000 image. Enhanced the neural network using TensorFlow and Keras, improving model performance by 15%
- Managed project timelines with detailed schedule planning, increasing workflow efficiency by 20%.
- Performed rigorous testing and integrated SOPs, boosting project workflow and task management by 25%.

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.