

Madhura Pakrashi

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🐙 <https://github.com/MadhuraPakrashi>

Experience

- SERAMPORE VIVEKANANDA ACADEMY** Jan 2022 - Present
Professional educator in Physics and Mathematics
- Univo Education Pvt. Ltd** Aug 2023 - Nov 2023
Guest Lecturer – MBA (Analytics for Decision Making)
- Madgical Techdom(OPC) Private Limited** June 2023 - July 2023
Project Intern -
 - Designed and implemented an automated system in ClickUp, streamlining task management by retrieving, organizing and synchronizing comprehensive task data.
 - Reduced manual effort by 60 percent and improved decision-making process significantly.
 - Achieved a 98.7 percent success rate with 76 error-free script executions.
 - Optimized workflow and enhanced troubleshoot issues for efficient task tracking

Skills

Python - Numpy, Pandas, Matplotlib, Seaborn
SQL - Data types, Queries, Aggregate functions, Subqueries, Joins
Advanced Excel - Count if, Sum if, VLOOKUP, Index, Pivot tables, Pivot charts

Projects

- Cement Strength Prediction:** Designed and developed a Machine Learning Regression Model.
 - Conducted Exploratory Data Analysis on a dataset of 1030 data points.
 - Performed outlier treatment and utilized Regression for Multivariate Analysis.
 - XG Boost (Accuracy: 87.2 percent, RMSE: 6.61, R2 Score: 0.83) and Random Forest (RMSE: 6.69, R2 Score: 0.83)Project link: <https://github.com/MadhuraPakrashi/Cement-Strength-Prediction>
- Jira Ticket Management System:** Flask-based Jira ticket management application via REST API using MySQL.
 - Created a user-friendly interface with features like pagination, ticket status updates and detailed ticket information.Project link: https://github.com/MadhuraPakrashi/Jira_MadgicalTechdom_Project
- Data Visualization Dashboard:**
 - Developed an interactive data visualization dashboard from 1001 data points using Python, Flask, chart.js and MySQL to present insightful information from a diverse dataset with interactive charts for effective exploration.Project link: <https://github.com/MadhuraPakrashi/Data-Visualization-Dashboard>
- Virtual Desktop Assistant:** Created a Python-based voice recognition device called "Jarvis" that performs various tasks based on voice commands.
 - Integrated Speech Recognition, Pyttsx3, Wikipedia, Web browser, and OS libraries to develop a voice-controlled virtual assistant, resulting in a 50 percent reduction in manual tasks and improving overall productivity.Project link: <https://github.com/MadhuraPakrashi/Virtual-Desktop-Assistant>

Education

M.Sc in Electronic Science 2017 - 2019: University of Calcutta
B.Sc in Physics 2014 - 2017: University of Calcutta

Certifications

Introduction to MS Excel - Simplilearn
Applied Data Science with Python - Simplilearn