

PALAK PASTAGIYA

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To obtain position that demands best of my technical skills and analytical skills and utilize the same for the growth of the organization. Detail-oriented and highly analytical Data Analyst in collecting, interpreting and analyzing complex datasets to inform business decision-making. Proficient in data wrangling, data visualization techniques using tools such as Power BI, SQL, Excel.

Skills

Technical Skills: Microsoft Excel, SQL, Python, Power BI
ML Framework: Sci-kit Learn, Pandas, NumPy, Matplotlib, Plotly, Seaborn
Platforms: Jupyter Notebook, MySQL workbench, Google Colab

Personal Skills: Flexibility and Adaptability, Customer training, Client facing skills, Decision making, Initiative and Hardworking, Interpersonal skills, Keen learner, Analytical Skills, Result oriented, Proactive approach

Academic Projects

➤ **OTP Verification System using Python**

- The aim is to minimize the risk of fraudulent login attempts
- Technical stacks: Python in Jupyter Notebook IDE, SMTP server, Tkinter, Timer.
- 6 digits random OTP is generated and verified with GUI presentation in which 3 attempts are given upon invalid OTP. Attempts count will be updated and message for wrong or right OTP will be displayed in GUI. 2 min Timer is given for session ending.
- OTP verification significantly impacts society by enhancing security and trust in digital transactions, promoting digital inclusion, and influencing user behavior.

➤ **Crime Data Analysis with MySQL and Python**

- The aim is to interact with a database in order to analyze and gain insights from crime data.
- Technical stacks: Jupyter notebook for Python development, PyMySQL library for interacting with MySQL database, Matplotlib and Seaborn for data visualization.
- Visualization and insights are derived from temporal, spatial and victim-based analysis which can be helpful to Investigation department.

➤ **Amazon data analysis using MySQL:**

- The aim of this project is to gain insight into the sales data of Amazon.
- MySQL workbench is used.
- Conducted product, sales and customer-based analysis which shows out of 6 product lines Electronics accessories product line has the maximum sales whereas Health and beauty has the minimum and Food and beverages generated the highest revenue. Females are predominant gender in customers.
- These results help vendors to improve sales and give discounts on particular products in festive seasons.

➤ **Health Insurance Price Prediction using Machine Learning:**

- Developed health Insurance Price Prediction using Machine Learning models in Python.
- Jupyter Notebook IDE is used for Python development
- Implemented 4 models such as Linear regression, XGBoost, Random Forest regression, Support vector regression out of which XGBoost model is giving the best result after comparing RMSE, Cross validation score, R2 score this means predictions made by this model are close to the real values as compared to the other model.

➤ **Coffee Quality Data Report using Power BI:**

- The aim is to leverage the dataset provided by CQI to understand the factors that contribute to coffee quality.
- Leveraged technical expertise to create impactful visuals and reports in Power BI.
- Implemented dynamic slicers and filters, stacked bar, donut chart for interactive and responsive reporting.

➤ **VLSI implementation of Region of Interest detection for low bit rate video coding:**

- The aim of this dissertation topic is to detect the important part in given image and ROI is coded with greater number of available bits while non-ROI is coded using fewer bits to reduce bandwidth and storage requirement. e.g. Brain tumor detection.
- VLSI is used for hardware implementation. In this dissertation ROI coding is used for compression of image.

➤ **Review Paper on Region of Interest coding techniques for medical image compression:**

Published in International Journal of Emerging Technology and Advanced Engineering. An ISO 9001:2008 Certified, International Journal, Volume 5 Issue 12, December 2015

Education

Master of Technology in Information & Communication Technology, Uka Tarsadia University, Bardoli, India. CGPA: 8.28 || 2014-2016

Bachelor of Engineering in Electronics Communication, Gujarat Technological University, Ahmedabad, India CGPA: 7.94 || 2009-2013

Achievements

- Best student award in MOEC-spoken English, 2007
- Government full scholarship in Bachelor of Engineering, 2009-2013
- Hackerrank profile: https://www.hackerrank.com/profile/palak_jangbari_1
- Leetcode profile: <https://leetcode.com/u/palakpastagiya/>

Certificates

- Data Science Professional Certificate from Odin School, Online Data Science Institute, 2024
- IT PROFESSIONAL DIPLOMA from iTpreneur Data System Pvt. Ltd., Pune, 2017