Kalpesh Shinde

DATA ENGINEER | PYTHON DEVELOPER

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Professional Summary

A diligent IT Engineer & a data enthusiast working in the Data Science domain, implementing data-driven end-to-end solutions to solve complex business problems using Python, SQL, Azure Cloud & Power BI.

Education

MCED - Meritorium Knowledge Academy   Jan 2020 – March 2020
Certification in Applied Data Science and Analytics Mumbai, Maharashtra

University of Mumbai   June 2013 – Aug 2018
Bachelor of Engineering in Information Technology Mumbai, Maharashtra

Experience

NSEIT, Navi Mumbai - Associate System Analyst (Client: SBI Life Insurance)   Jul 2023 – Present

- Spearheaded the Real Time Validation project, developing an exact flow of client insurance policies in Python. Worked on end-to-end process flow from receiving and optimizing SQL input data queries to producing results according to business requirements and presenting them to the stakeholders.
- Wrote sophisticated Python code to replicate insurance policies based on input data. Ensured precise process flow replication, generating audited results to validate the correctness and authenticity of the processed policies. Enhanced accuracy and efficiency by creating automated solutions that align with the policy structure.
- Led initiatives to refactor the code base, significantly improving execution efficiency and code agility. Focused on writing clean, maintainable code and maintaining comprehensive documentation to support future development.
- Introduced and spearheaded Git implementation for version control, establishing best practices for code management and collaboration. Promoted high-quality code standards and structured software development processes across the team.

Imenso Software, Gurgaon - Business Intelligence Developer   Feb 2022 – Apr 2023

- Proficiently acquire and extract data from various sources, ensuring data integrity and quality. Employ Python scripting language to execute comprehensive data wrangling operations, including data cleaning, transformation, and integration.
- Develop and optimize Extract, Transform, Load (ETL) processes to efficiently prepare data for analysis. Leverage expertise in data modeling to design & implement efficient data structures conducive to analysis & reporting.
- Acquire an in-depth understanding of the business domain and relevant Key Performance Indicators (KPIs). Collaborate closely with clients to elicit and comprehend their specific data analysis and reporting requirements.

iSecurance Technologies, Mumbai - Data Scientist Intern   Feb 2020 – Aug 2020

- Conducted Market Basket Analysis to identify associations and patterns among products frequently purchased together by customers & leveraged the insights from Market Basket Analysis to optimize product placement and improve cross-selling strategies, leading to increased sales and revenue.
- Collaborated with team members using version control systems such as Git to organize modifications and assign tasks.
- Developed and implemented Affinity Promotion techniques based on customer behavior analysis to enhance customer engagement and drive sales & utilized Matplotlib & Seaborn libraries and other data visualization tools to present analysis findings and actionable recommendations to stakeholders.

Verus Enterprises, Mumbai - Data Analyst Intern   Dec 2018 – Jan 2020

- Collected the Data, performed the Extract Transform Load operation was used, various EDA techniques were used, & Feature Engineering was performed. Inconsistencies in data were handled for Sales & Service subdomains.
- Performed ETL Operations to extract data from various sources, transform it into a consistent format, & load it into the target system for analysis. Utilized EDA Techniques to gain a comprehensive understanding of the collected data. Conducted data profiling, summary statistics, data viz, & pattern identification to uncover insights & patterns.
- Identified & addressed inconsistencies, missing values, outliers, & data quality issues. Implemented appropriate data cleaning & data validation techniques to ensure data integrity. Leveraged data visualization tools and techniques to present findings from EDA & feature engineering processes. Created visualizations, charts, and graphs to effectively communicate insights and facilitate decision-making.

Projects

Customer Churn Prediction | *Python, Logistic Regression, Random Forest, Decision Tree*   **Mar 2023**
- Implemented Logistic Regression, Random Forest, and Decision Tree algorithms to develop predictive models for telecom customer churn. Analyzed historical customer data including demographics, call records, usage patterns, and spendings.
- Worked towards proactive identification and retention of at-risk customers, enabling targeted actions to mitigate churn and improve overall customer retention rates.

Sales Dashboard | *Python, Power Query, Power BI*   **January 2023**
- Understood requirements, performed Data Mining from SQL Server Database, worked on Data Modeling, created the DAX measures & integrated the Power BI dashboard file into my portfolio website using Embedded Analytics.

Technical Skills

Languages: Python, SQL, HTML

Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit learn

Web Frameworks: Django, Pyramid, Streamlit

Unit Testing: Test-Driven Development, PyUnit, PyTest, Nose

Tools: Heroku, Google Sheets, MySQL, MS Excel, Power BI, Git, GitHub, GitLab, VS Code, Spyder, Jupyter, JIRA, Confluence, JSON

General: SDLC, OOP, Debugging, Data Extraction, Data Mining, Data Wrangling, Data Cleaning, Data Modeling, Data Visualization, Business Acumen, ETL, EDA, Data Pipeline, Agile Methodology

Achievements

- Published a research paper titled "**Centralized Database Management System for Medicals**" in International Journal of Scientific & Engineering Research Vol 9, Issue 4, Apr 18, ISSN 2229-5518
- **Cleared NPTEL – IIT Madras's Python for Data Science Certification Exam**
  Attended online Python for Data Science lectures conducted by **NPTEL - IIT Madras**, submitted weekly assignments, passed proctored and un-proctored **exams, and scored 73 %**.
- Certification in **Introduction to Data Science in Python** | [Coursera] University of Michigan | 2020
- DevOps for Data Scientists | [LinkedIn]