Pradyumn Vibhandik

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EDUCATION

Centre for Development of Advanced Computing (C-DAC) Mumbai, MH
PG Diploma in Big Data Analytics (DBDA) *Mar 2023 – Aug 2023*

Savitribai Phule Pune University Nashik, MH
B.E. Mechanical | CGPA : 7.86 *Aug. 2016 – May 2022*

TECHNICAL SKILLS

Programming skills: Python, Java, SQL, Bash scripting
Big Data Tools: Hadoop, Spark, Kafka, Airflow, Hive, Hbase
Data Analytics: PowerBI, Tableau, Advanced Excel
Artificial Intelligence and Machine Learning : Deep Learning, Machine Learning, Computer vision, Statistical analysis, NLP, Model development
Frameworks and Libraries : Pandas, NumPy, scikit-learn, TensorFlow, BeautifulSoup, Keras, OpenCV, Matplotlib and Seaborn
Development and Cloud Tools: AWS, Azure, GCP, Git, VS Code, Jupyter Notebook, Eclipse and RStudio

EXPERIENCE

Machine Learning Intern Mentorness
Remote *Jul 2024 – Aug 2024*

- Developed machine learning models to predict heart attack risk and restaurant ratings by leveraging medical, demographic, and operational data.
- Executed data preprocessing and feature engineering; applied advanced algorithms such as Logistic Regression, Random Forest, and Gradient Boosting to enhance model accuracy by up to 20%.
- Enhanced model performance through rigorous hyperparameter tuning and cross-validation techniques, achieving an improvement of up to 15%.
- Designed and deployed a Streamlit-based interface for the Restaurant Rating Prediction project, enabling users to seamlessly check and predict restaurant ratings.
- Technologies: Python, Pandas, NumPy, scikit-learn, Streamlit

Data Analyst Intern PwC Switzerland Job Simulation
Remote *Jan 2024*

- Led data cleaning and preparation, analyzed data, and created visualizations using Microsoft Power BI; delivered reports of insights using Microsoft PowerPoint.
- PwC Project 1 – Call Center Trend.
- PwC Project 2 – Customer Churn.
- PwC Project 3 – Diversity Inclusion.

PROJECTS

Market Basket Analysis for Customer Purchase Insights

Databricks, keyvault , container (storage account), PySpark, SparkSQL, ML, Power BI, Python
  * Developed a dynamic big data project utilizing a reliable pipeline for market basket analysis.
  * Employed advanced methods from data extraction to visualization to clarify complex product relationships within extensive transaction records.
  * Aimed to enhance inventory management, bolster cross-selling strategies, and segment customers with precision.
  * Enhanced customer experiences and facilitated data-driven decision-making, enabling targeted marketing efforts and fueling revenue growth.
  * Implemented strategic company improvements using real-time information derived from the project.

Lodging Management System

Python, SQL, Streamlit, NumPy, Pandas
  * Developed a Lodging Management System using Python and Streamlit.
  * Enabled functionalities such as booking specific types of rooms for desired duration, checkout, and bill viewing.
  * Allowed administrators to view room allocations and perform force checkouts.

Fraudulent Transaction Analysis and Detection using Machine Learning Algorithms

Python, Pandas, Numpy, ML, EDA
  * Addressed the challenge of detecting fraudulent transactions for a bank.
  * Aimed to counter potential security vulnerabilities and mitigate the risk of fraudulent activities, reinforcing user trust and safeguarding the bank's financial ecosystem.

CERTIFICATE AND ACHIEVEMENTS

- Earned a PG-Diploma in Advanced Computing from CDAC, completing a rigorous 6-month program in cutting-edge technology
- Python 5-star Gold Badge HackerRank
- PwC Switzerland - Power Bl Job Simulation
- AWS APAC's Solutions Architecture