KAUSHIK PRADHAN

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SUMMARY

Data science graduate with a passion for data analysis and problem-solving. Skilled in data visualization, statistical modelling and machine learning and deep learning models. Seeking to leverage my knowledge and hands-on experience to contribute to data analytics team and drive data-driven decision-making. Committed to continuous learning and staying up-to-date with the latest trends and techniques in Data science.

EDUCATION

- PGP in Software engineering for Data Science, IIIT Hyderabad
- MSc Data Science, GITAM University, Hyderabad
- BSc Physics Honours, UPES, Dehradun

EXPERIENCE

Data Analyst Intern | National Remote Sensing Centre (NRSC), ISRO | Hyderabad

Statistical Analysis of Product Downloads
January 2024 - April 2024

- Analyzed large datasets by preprocessing it to identify patterns and trends to optimize download processes.
- Collaborated with cross-functional teams to ensure data accuracy, integrity and utilisation of the servers effectively.
- Built a tool to limit download rate limiting which predicts the number of downloads that can be given to the user by using historical data.

Data Science Intern | TwiLearn Edu-Tech Ltd.
June 2023 - August 2023

- **Amazon Sales Data Analysis**

  Utilised Tableau to designed and implement interactive dashboards that visually represented key performance indicators and trends in Amazon sales data. Conducted in-depth analysis to identify areas of improvement in distribution methods aiming to reduce costs and enhance overall profitability.

- **Airport Data Analysis**

  Designed and developed interactive dashboards using Tableau to visualise and communicate complex Airport data effectively.

TECHNICAL SKILLS

- Python and its libraries
- Data Mining Techniques
- Data Preprocessing
- Machine Learning Algorithms
- Statistical Analysis
- MySQL, NOSQL
- Deep Learning Frameworks
- Transfer Learning
- Data Visualization Tools (e.g. Tableau, Power BI)
- Model Evaluation and Validation
- Hyperparameter Tunning

SOFT SKILLS

- Analytical Thinking
- Effective Communication
- Collaboration
- Problem-Solving
- Time Management
- Adaptability
- Project Management
- Critical Thinking
- Curiosity
- Continuous Learning
- Leadership
- Creativity
- Emotional Intelligence
- Decision-Making

INTERESTS

- Athlete
- Esports
- Audiobooks
- Trading Enthusiast

CERTIFICATES

- National Workshop in AI
- Modelling software systems using UML
- NCC

PROJECTS

1. Fraud Detection Analysis

Technologies: Python

Description:
With the provided transaction data, the task was to create a system to detect fraudulent activities. The organization supplied a dataset of financial transactions with various features. The task involved data preprocessing, feature engineering, and building a fraud detection model using supervised learning algorithms. Various techniques like SMOTE for handling imbalanced data and cross-validation were used to ensure the model's robustness. The final model was deployed and tested for its efficiency in real-time fraud detection.

Skills & Tools Covered: Data Analysis, Feature Engineering, Handling Imbalanced Data, Logistic Regression, Random Forest, Gradient Boosting, SMOTE, Cross-Validation, Model Deployment, SQL

2. Database Systems & Product shipping analysis

Technologies: Python

Description:
With the given information the task was to create a Database called ProductOrder with various collections in it. The organization has provided the collections and the necessary attributes which are needed in every collection. The task was to perform data analytics to analyze the shipment data of an e-commerce firm during lockdown. The project involves pre-processing and model building. In model building PCA model was used for visualizing the higher-dimensional data.

Skills & Tools Covered: Data Analysis, Dealing with missing values, checking for duplicates, One Hot Encoding, NoSQL Database, MongoDB, PCA and LDA

3. Quiz Portal Application

Technologies: Python

Description:
This project aims at creating a quiz portal application where in Admin will create the questions and tag those to the quiz and assign the designed quiz to the users. The users will attempt the quiz and the results of it will be stored in the database. Learner was supposed to implement the application using RESTful Apis and Database models using Flask Framework.

Skills & Tools Covered:
- Understanding of how flask and database go hand in hand- Implementing API's to perform various operation such as performing authorization. Designing and implementing various API's to insert and retrieve data from the available MySQL database. A good understanding of intermediate Python language features such as: The mysql module utilities & The flask module utilities.

4. EfficientNet for Image Classification

Technologies: Python

Description:
The task was to develop and fine-tune an EfficientNet model for high-accuracy image classification on a large and complex dataset. The project involved image preprocessing, applying advanced data augmentation techniques, and leveraging the EfficientNet architecture to achieve optimal performance. Techniques such as compound scaling, transfer learning, and fine-tuning pre-trained EfficientNet models were utilized. The final model was evaluated using accuracy, precision, recall, and F1 score metrics and deployed for real-time image classification applications.

Skills & Tools Covered: EfficientNet, Image Classification, Compound Scaling, Transfer Learning, Data Augmentation, TensorFlow, Keras, Deep Learning, Model Evaluation, Hyperparameter Tuning, Real-time Deployment, Flask, API Development, MySQL, Intermediate Python, Authorization, Data Insertion and Retrieval.