DHAVASAKTHI S

DATA ANALYST

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Career Objective

As a recent B.Tech graduate in Artificial Intelligence and Data Science, I am eager to apply my knowledge and skills to solve real-world problems. I am passionate about leveraging data-driven insights and machine learning techniques to drive innovation and efficiency. Committed to contributing to cutting-edge projects, enhancing technical expertise, and continuously growing within the field.

Education

Bachelors in Artificial Intelligence and Data Science
Karunya Institute of Technology and Sciences — 6.84 CGPA — **(2020- 2024)**

HSC
Kurunji Senior Secondary School , Namakkal — 74.6% — **(2019- 2020)**

Skills

- **Data Analysis Tools**: Excel, SQL, Python
- **Data Visualization**: Tableau, Power BI, Matplotlib, Seaborn
- **Data Management**: Data Cleaning, ETL Processes, Data Modeling
- **Programming**: Python (Pandas, NumPy)
- **Database Management**: MySQL
- **Statistical Analysis**: Descriptive Statistics, Hypothesis Testing, Regression Analysis
- **Version Control**: Git/GitHub
- **Machine Learning**: Classification, Clustering, Regression Techniques
- **Additional Skills :** Deep Learning, Natural Language Processing , Generative AI

Personal Projects

Skin Cancer Severity Prediction Using EfficientNetB4
Tools Used: Deep Learning , Python , Tensorflow, Keras, Sci-Kit Learn

- Problem Statement: Developed an AI-driven solution to accurately predict the severity of skin cancer, addressing the need for more reliable and efficient diagnostic tools in healthcare.
- Approach: Utilized the EfficientNetB4 model, fine-tuned on the HAM10000 dataset, and conducted extensive preprocessing, including normalization, resizing, and augmentation. Performed a comparative analysis with models like MobileNet and VGG-16, optimizing for high accuracy and computational efficiency.
- Impact: Achieved a top-3 accuracy of **99.03%**, surpassing other architectures and significantly enhancing diagnostic accuracy and consistency

Customer Churn Prediction
Tools Used: Python , Natural Language Processing, Machine Learning, NLTK

- Problem Statement: Developed a model to classify messages as spam or ham to enhance email filtering efficiency and user experience.
- Approach: Utilized the Machine algorithms with Python. Preprocessed the dataset through feature extraction and split it into training and testing sets.
- Impact: Improved spam detection accuracy and reduced false positives, thereby enhancing user experience and achieved an accuracy of 95%.

Paris 2024 Olympics Dashboard Project
Tools Used: Power BI, Python

- Problem: Needed a dynamic, real-time dashboard to monitor event data, athlete performance, and medal distribution for the Paris 2024 Olympics.
- Approach: Scraped and cleaned data using Python, integrated it into Power BI, and created interactive visualizations. Automated updates to ensure real-time accuracy.
- Impact: Enabled stakeholders to make informed decisions, enhancing strategic planning and operational efficiency during the event.

Interactive Tableau Dashboard for Netflix
Tools Used: Tableau

- Problem Statement: Needed a comprehensive visualization tool to analyze Netflix content metrics, including genre ratings, distribution of movies versus TV shows, and geographic content trends.
- Approach: Gathered and cleaned data from Netflix datasets. Designed and implemented various interactive charts and filters in Tableau to represent genre ratings, distribution trends, and geographical insights. Created a user-friendly dashboard to facilitate easy exploration and analysis of the data.
- Impact: Provided actionable insights into content performance and distribution, enabling better strategic decisions for content acquisition and marketing. Improved data accessibility and understanding for stakeholders.

Experience

Data Analytics Intern | YBI Foundation — **(Aug 2024 - Sep 2024)**

Data Science Intern | Exposys DataLab Private Limited | Bangalore — **(Jun 2023 - Jul 2023)**

- Gained hands-on experience in data analysis, statistical modeling, and machine learning techniques.
- Applied data science methodologies to real-world projects, including data preprocessing, exploratory data analysis, and model development.
- Developed and implemented predictive models, performing feature engineering to enhance model performance and deliver actionable insights.

Machine Learning Intern | TechVolt Software Private Limited | Coimbatore — **(May 2023 - Jul 2023)**

- Acquired in-depth knowledge of Machine Learning concepts and techniques, applying them to real-world problems.
- Executed various Machine Learning models, gaining hands-on experience in data preprocessing, model training, and evaluation.
- Successfully deployed machine learning models using Streamlit, creating interactive web applications for real-time data analysis.

Certifications

1.**Data Science - Boston Institute of Analytics**
- Excel ,Python, SQL, Data Science, Power BI, Tableau

2. **Artificial Intelligence - Boston Institute of Analytics**
- Generative AI , Machine Learning ,Deep Learning, Natural Language Processing

3. **Data Analytics Essentials - CISCO**

Extra Curricular Activity

Navigating Numbers - Accenture North America ,Virtual Experience Program Participant **(2024)**
Participated in the open access Accenture Virtual Experience Program with InsideSherpa.
Task Completed Include:
- Task A: Project Understanding
- Task B: Data Cleaning & Modeling
- Task C: Data Visualization & Storytelling
- Task D: Present to the Client

Power-BI - PWC Switzerland, Virtual Experience Program Participant **(2024)**
Participated in the open access PWC Switzerland Virtual Experience Program with InsideSherpa.
Task Completed Include:
- Task A: Introduction
- Task B: Call Centre Trends
- Task C: Customer Retention
- Task D: Diversity & Inclusion

Tata Data Visualisation: Empowering Business with Effective Insights Virtual Experience Program Participant **(2024)**
Participated in the open access Tata Virtual Experience Program with InsideSherpa.
Task Completed Include:
- Task A: Communicating Insights and Analysis
- Task B: Choosing the Right Visuals
- Task C: Creating Effective Visuals
- Task D: Communicating Insights and Analysis

Conference

Fourth International Conference on Artificial Intelligence and Smart Computing (ICAISC 2024)
Presented Paper: "**Skin Cancer Severity Prediction Using Artificial Intelligence Techniques** - A Review"
Venue: Bannari Amman Institute of Technology, Sathyamangalam
Date: March 14-16, 2024