Kurma Viswakanth

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PROFESSIONAL SUMMARY

Dynamic Data Science graduate with expertise in AI, machine learning, and data analytics. Proficient in Python, SQL, Tableau, and Microsoft Power BI for data analysis, model building, and interactive visualizations. Experienced in developing AI-based models and data-driven solutions through internships and real-world projects. Adept at uncovering actionable insights, predictive modeling, and data visualization to support decision-making.

PROFESSIONAL EXPERIENCE

Data Science Intern (Remote)
Unified Mentor Private Limited – Visakhapatnam, India
Aug 2024 – Present

- Conduct data manipulation, analysis, and visualization using Python, Structured Query Language (SQL), Tableau, and Microsoft Power BI.
- Implement statistical methods and hypothesis testing to uncover trends and insights, driving data-driven decision-making.
- Delivered interactive data visualizations for stakeholders, enhancing decision-making processes.
- Efficiently manage and query databases using Structured Query Language (SQL), supporting data-driven strategies.

Data Science Intern (Remote)
IBM SkillsBuild and CSRBOX – Visakhapatnam, India
Jun 2023 – Jul 2023

- Acquired hands-on experience in data analytics using IBM tools through a virtual internship program.
- Analyzed Corporate Social Responsibility (CSR) data, measured social impact, and contributed to strategic decisions.
- Applied AI and machine learning and data analysis techniques to derive actionable insights.

PROJECT EXPERIENCE

Capstone Project: Breast Cancer Risk Prediction

- Developed a predictive model utilizing Logistic Regression and Support Vector Machines (SVM) to classify breast tumors based on Fine Needle Aspiration (FNA) test data.

- Achieved accuracy of 97.08%, exceeding the industry benchmark of 95% through hyperparameter tuning.
- Performed data preprocessing (cleaning, handling missing values, and feature selection) and exploratory data analysis (EDA) using Pandas and NumPy.
- Visualized data relationships with Matplotlib and Seaborn to enhance understanding of key features.
- **Tools**: Python, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Google Colab.

Deep Learning Project: Dog vs. Cat Image Classification

- Developed a Convolutional Neural Network (CNN) to classify images of dogs and cats, creating a binary classifier for distinguishing between the two animal types.
- Implemented image preprocessing techniques such as resizing, normalization, and data augmentation to enhance model generalization and performance.
- Trained and validated the CNN using a split dataset, evaluating the model's accuracy and performance with metrics like accuracy, precision, recall, and confusion matrices.
- **Tools**: TensorFlow, Keras, Python, OpenCV, Matplotlib, Kaggle Application Programming Interface (API).

Tableau Project: World Happiness Report Analysis

- Utilized Tableau to visualize and analyze the World Happiness Report, exploring factors like Gross Domestic Product (GDP), social support, and life expectancy.
- Developed interactive dashboards to compare happiness scores, analyze trends over time, and examine correlations between socioeconomic variables and happiness.
- Identified key insights, such as the strong link between higher Gross Domestic Product (GDP) per capita, social support, and life expectancy with increased happiness levels.
- **Tools**: Tableau, Microsoft Excel (for data preprocessing), World Happiness Report dataset (2015 – 2023).

Power BI Project: Amazon Sales Data Analysis

- Utilized Microsoft Power BI to analyze Amazon sales data, providing insights into key performance indicators (KPIs), customer behavior, and product trends.
- Developed interactive dashboards to visualize total sales, average order value, customer demographics, and product performance over time.
- Identified top-selling products and analyzed sales trends, revealing significant peaks during promotional periods and variations in profit margins across categories.
- **Tools**: Microsoft Power BI, Microsoft Excel (for data preprocessing), Data Analysis Expressions (DAX), Power Query.

SQL Project: Netflix Movies and TV Shows Analysis

- Netflix's extensive catalog analyzed using Structured Query Language (SQL) to uncover insights on content distribution, ratings, and geographic presence.
- Conducted a comparative analysis of movies and television shows, explored the most common ratings, and identified trends in content release over the years.
- Examined geographic content production, focusing on countries with the highest output and specific trends in Indian content.
- **Tools**: Structured Query Language (SQL), Kaggle datasets.

SKILLS

- **Programming Languages:** Python, Structured Query Language (SQL), Hypertext Markup Language (HTML), Cascading Style Sheets (CSS)

- **Data Science & AI:** Machine Learning, Predictive Modeling, AI Solutions, Data Analysis, Deep Learning
- **Data Visualization Tools:** Tableau, Microsoft Power BI, Matplotlib, Seaborn
- **Machine Learning Libraries:** TensorFlow, Keras, Pandas, NumPy, Scikit-learn
- **Database Management:** Structured Query Language (SQL), MySQL
- **Creative Tools**: Adobe Photoshop, Adobe Illustrator, Adobe Premiere Pro, Adobe Experience Design (Adobe XD)
- **Operating Systems:** Windows, Ubuntu

EDUCATION

Master's in Data Science
GITAM University – Visakhapatnam, India *2022 – 2024*

Bachelor's in Computer Science
Aditya Degree College – Visakhapatnam, India *2019 – 2022*

CERTIFICATIONS

- AI and Machine Learning Specialization
- Data Analytics and Visualization (Accenture Simulation)
- Advanced Power BI and Tableau
- Microsoft and LinkedIn Career Essentials in Data Analysis
- Exploratory Data Analysis for Machine Learning
- Supervised and Unsupervised Machine Learning
- Deep Learning and Reinforcement Learning

LANGUAGES

- English, Telugu, Hindi