KURMA VISWAKANTH

Phone: +91 7989393735 | Email: kviswakanth@gmail.com
LinkedIn: www.linkedin.com/in/kurma-viswakanth
GitHub: https://github.com/kurmaviswakanth

PROFESSIONAL SUMMARY

Highly analytical and detail-oriented Data Science Graduate with expertise in Machine Learning, Deep Learning, and Data Analytics. Proven ability to develop predictive models and data-driven insights. Skilled in data manipulation, statistical analysis, and visualization using Python, Structured Query Language (SQL), Tableau, and Microsoft Power BI. Experienced in Convolutional Neural Network (CNN)-based Image Classification and Breast Cancer Risk Prediction with a record of exceeding industry accuracy standards. Passionate about leveraging data science to solve complex problems, demonstrated through hands-on projects and internships.

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.
- Efficiently manage and query databases using Structured Query Language (SQL), supporting data-driven strategies.
- Generate interactive visualizations to present data insights to stakeholders, enhancing decision-making processes.

Data Science Intern (Remote)
IBM SkillsBuild and CSRBOX Academic Internship – 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 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 an 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

- Analyzed Netflix's extensive catalog 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.

TECHNICAL SKILLS

- **Programming Languages**: Python, Structured Query Language (SQL), Hypertext Markup Language (HTML), Cascading Style Sheets (CSS)
- **Data Science & Machine Learning**: Data Analysis, Predictive Modeling, Supervised Learning, Unsupervised Learning, Deep Learning, Convolutional Neural Networks (CNN), Exploratory Data Analysis (EDA), Feature Engineering
- **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
- **Tools & Platforms**: Jupyter Notebook, Google Colab, Microsoft Excel, Git
- **Creative Tools**: Adobe Photoshop, Adobe Illustrator, Adobe Premiere Pro, Adobe Experience Design (Adobe XD)
- **Operating Systems**: Microsoft Windows, Ubuntu

EDUCATION

Master's in Data Science
GITAM Deemed to be University, Visakhapatnam, India
2022 – 2024
Bachelor's in Computer Science
Aditya Degree College, Visakhapatnam, India
2019 – 2022

CERTIFICATIONS

- Career Essentials in Data Analysis by Microsoft and LinkedIn
- Exploratory Data Analysis for Machine Learning
- Supervised Machine Learning: Classification and Regression
- Deep Learning and Reinforcement Learning
- Unsupervised Machine Learning
- Advanced Data Visualization with Tableau
- Advanced Microsoft Power BI
- Data Analytics and Visualization Job Simulation by Accenture North America

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LANGUAGES

- English, Telugu, Hindi