KURMA VISWAKANTH

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Summary:

A highly skilled and dedicated Data Science graduate with expertise in machine learning, deep learning, and data analytics. Proficient in developing predictive models and leveraging advanced techniques for image classification, with a proven track record in Breast Cancer Risk Prediction and CNN-based Image Classification. Experienced in data manipulation, statistical analysis, and visualization using Python, SQL, Tableau, and Power BI. Demonstrates exceptional analytical thinking and solution-oriented skills, honed through hands-on internships at IBM and a current role as a Data Science Intern at Unified Mentor Private Limited. Committed to continuous learning and innovation in data science, reinforced by certifications and real-world project experience.

Experience:

- **Data Science Intern** **Aug '24 — Present**
  Unified Mentor Private Limited *Visakhapatnam, India (Remote)*
  - It's a Virtual Internship
  - data manipulation, analysis, and visualization using Python, SQL, and tools like Tableau and Power BI
  - Apply statistical methods and hypothesis testing to uncover insights and trends in data
  - Efficiently manage and query databases using SQL to support data-driven decisions.

- **IBM SkillsBuild and CSRBOX Academic Internship** **Jun '23 — Jul '23**
  IBM *Visakhapatnam, India (Remote)*
  - It's a Virtual Internship
  - Learn data analytics with hands-on practice using IBM tools.
  - Analyze CSR data, measure social impact, and contribute to strategic decisions

Project's Handle:

- **Capstone Project: Machine Learning Project: *Breast Cancer Risk Prediction***
  Developed a predictive model to classify breast cancer tumors using data from Fine Needle Aspiration (FNA) tests, distinguishing between malignant and benign tumors for early detection. The project involved comprehensive data preprocessing, such as removing irrelevant features like the ID column, handling missing values, and converting categorical data into numerical formats. Conducted exploratory data analysis (EDA) on key tumor features like radius, texture, perimeter, and smoothness to identify factors influencing diagnosis. Applied machine learning algorithms, including Logistic Regression and Support Vector Machines (SVM), achieving 97.08% accuracy after hyperparameter tuning, surpassing the industry standard of 95%. Tools used included Python libraries (Pandas, NumPy) and Google Colab for execution.

- **Deep Learning Project: *Dog vs. Cat Image Classification with CNN***
  Built a Convolutional Neural Network (CNN) model to classify dog and cat images

with high accuracy using deep learning techniques. Utilized the Kaggle "Dogs vs. Cats" dataset, preprocessing images through resizing, normalization, and augmentation (rotations, flipping) to improve data quality. The CNN architecture consisted of multiple convolutional and max-pooling layers, followed by fully connected dense layers with ReLU activations and a sigmoid output for binary classification. Trained the model using binary cross-entropy loss and the Adam optimizer, with validation checkpoints for performance monitoring. After hyperparameter tuning, the model achieved high classification accuracy. Technologies used included TensorFlow, Keras, Python, OpenCV, and Matplotlib.

- **Tableau Project: *World Happiness Report Exploration***
  Developed interactive Tableau dashboards to analyze global happiness data (2015-2023) using key metrics like GDP per capita, social support, life expectancy, freedom, generosity, and corruption. Cleaned and processed the World Happiness Report dataset, adhering to best practices in data visualization and storytelling. Created dashboards to visualize trends in happiness scores across regions and countries, examining the influence of socio-economic factors. Analyzed happiness trends for the top 10 happiest and least happy countries, highlighting key drivers of well-being over time. Published the final project on Tableau Public, showcasing expertise in data analysis and visualization. Tools used included Tableau, Python (for preprocessing), and Kaggle datasets.

- **Power BI Project: *Amazon Sales Data Analysis Project***
  Utilized Power BI to perform a comprehensive analysis of Amazon sales data, focusing on sales trends and key metrics. Conducted ETL processes to clean, preprocess, and integrate the dataset, ensuring data accuracy. Analyzed sales trends across multiple dimensions (month-wise, year-wise) to identify patterns and seasonal variations. Developed interactive Power BI dashboards to visualize sales performance, key metrics, and attribute relationships. Key insights included metrics like total sales, average order value, and customer acquisition cost, along with the impact of marketing campaigns and product categories on revenue. Documented findings and methodologies, highlighting challenges and solutions.

- **SQL Project: *Netflix Movies and TV Shows Data Analysis***
  This project involves a comprehensive SQL-based analysis of Netflix's catalogue of movies and TV shows, utilizing a dataset from Kaggle to derive actionable insights on content distribution, ratings, and geographic trends. The analysis includes comparing the distribution of movies versus TV shows, identifying the most common ratings, and examining content release patterns over specific years. Key geographic insights highlight the top content-producing countries and explore content trends specific to India. Additionally, the project addresses content duration, categorizes titles based on keywords, and examines works by notable directors and actors. These insights provide a data-driven foundation for strategic decision-making and content optimization, offering valuable perspectives on Netflix's content strategy and market presence.

Skills:

- **Programming Languages**: Python (3.x), SQL, HTML, CSS
- **Technical Skills**: Machine Learning, Deep Learning, Data Visualization, Data Cleaning, Exploratory Data Analysis (EDA)
- **Frameworks/Libraries**: Pandas, NumPy, TensorFlow, Keras, Matplotlib
- **Tools/Software**: Jupyter Notebook, Google Colab, Tableau, Power BI, MS Office
- **Creative Software**: Adobe Photoshop, Illustrator, Premiere Pro, XD
- **Operating Systems**: Windows, Ubuntu

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
- Accenture North America - Data Analytics and Visualization Job Simulation

Education:

Masters in data science

GITAM Deemed to be University, Visakhapatnam *2022-2024*

Bachelors in computer science

Aditya Degree College, Visakhapatnam *2019-2022*

Languages Know:

English, Telugu, Hindi