Vatsavai Ashok Varma

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Objective

B.Tech graduate in Computer Science with a specialization in Data Science, looking to start my career in a professional organization where I can apply my knowledge, learn new skills, and contribute effectively to the organization's growth and success.

Education

2020 – 2024 **B.Tech in Computer Science Engineering - Data Science**
Rise Krishna Sai Gandhi Group of Institutions
CGPA : 7.17

Internships

Front-End Development Intern - IBM SkillBuild (June 5, 2023 – July 10, 2023)
- Completed a 6-week internship gaining hands-on experience with modern web frameworks and tools.
- Developed and deployed responsive web applications as part of the program

Java Full-Stack Intern - Kodnest
- Completed a 6-month internship, developing skills in front-end technologies, MySQL, and database connectivity.

Skills

Programming Languages: Python, SQL

Database: MySQL

Tools: Excel, Power BI, Streamlit, Jupyter Notebook

Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Tensorflow, Keras

Technical Expertise: Data Analysis, Data Cleaning & Preprocessing, Data Visualization, Statistics & Probability, Machine Learning, Deep Learning

Projects

Cricket Player Performance Analysis for Team Selection
Technologies: *Python, BeautifulSoup, Selenium, Pandas, Matplotlib, Seaborn, Excel*
Analyzed performance data of 450+ international cricket players (2021–2024) scraped using Selenium. Cleaned and structured data, created custom metrics, and visualized insights to support data-driven team selection and match strategy
- Developed custom metrics like conversion rate and power index to evaluate player effectiveness.
- Created interactive visualizations using Matplotlib, Seaborn, and Plotly.
- Enabled coaches and selectors to make informed, data-driven decisions.

Diabetes Prediction and Health Insight App
Technologies Used: *Python, Streamlit, Pandas, Seaborn, Matplotlib, joblib,Scikit-learn*
Built an interactive web application to predict diabetes risk based on inputs like Glucose, BMI, Age, and other medical metrics. Combined a Random Forest Classifier with a rule-based system for accurate predictions and personalized health suggestions.
- Achieved 98.75% prediction accuracy with the ML model.
- Provided personalized health insights to users for early detection and awareness.
- Developed a user-friendly web interface using Streamlit for easy interaction.

Mask Detection Web App
Developed a real-time face mask detection app using Streamlit and a custom CNN (Keras) model. Supported detection via webcam and image uploads, classifying faces as Mask / No Mask with confidence scores.

- Used OpenCV Haar Cascade for face detection and preprocessing.
- Implemented a CNN model for real-time mask classification.
- Deployed on the web, demonstrating skills in Deep Learning, Computer Vision, and Python web development.

Certificates

Frontend Developer — IBMSkillBuild

Python Programming — Innomatics Research Labs

SQL (Basic) — Hackerrank

Exploratory Data Analysis — Innomatics Research Labs

Advance Data Science With Python — Innomatics Research Labs