BHUVANESHWARI BALAJI

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An Undergraduate student with hands-on experience in building and maintaining data models and dashboards. Proficient in Python, SQL, and machine learning techniques, with expertise in data visualization tools (Tableau, Power BI) and frameworks (TensorFlow, Scikit-learn). Committed to extracting actionable insights from data.

EDUCATION

Dr.M.G.R Educational and Research Institute, Chennai, Tamil Nadu
Bachelor of Computer Application, Artificial Intelligence and Data Science
September 2022 – June 2025 | **CGPA: 9.4**

Relevant Courses(IBM - Led): Python Programming, Machine Learning, Machine Learning with Watson Studio, Data Science, Data Analysis, Artificial Intelligence, Data Visualization, Big Data Engineering, Cloud Computing, Databases (SQL, NoSQL)

SKILLS

Programming Languages: Python, R, SQL
Machine Learning: Classification, Regression, Clustering , Principal Component Analysis (PCA), Q-Learning
Data Visualization: Tableau, Power BI, Matplotlib, Seaborn, Folium
Databases: MongoDB, MySQL
Frameworks & Tools: TensorFlow, Keras, PyTorch, Scikit-learn, Flask, Django
Version control: Git, GitHub,
Other Tools: Excel

ACADEMIC PROJECTS

Signature Detection Using CNN: Developed a CNN based system for distinguishing between genuine and forged signatures. This system leverages deep learning techniques to enhance accuracy in signature verification.
Tools & Techniques: TensorFlow/Keras, OpenCV, Python

YouTube Comment Classifier: Built a sentiment analysis model to categorize YouTube comments into positive, neutral, and negative sentiments. The model integrates with the Google API for data extraction and utilizes VaderSentiment for sentiment analysis, streamlining the classification process.
Tools & Techniques: Google API Client, VaderSentiment, Python

Traffic Accident Severity Prediction: Built a machine learning model to predict the severity of traffic accidents, utilizing various classification algorithms for accurate outcome prediction. Developed a web application using Flask to deploy the model, allowing users to input data and receive real-time predictions through a user-friendly front end.
Tools & Techniques: Python, Flask, Scikit-learn, Pandas, NumPy.

Multi-Layered Web Page: Created a dynamic and interactive web page with various features to enhance user experience. Utilized Node.js for backend development, enabling real-time functionality and efficient handling of user interactions.
Tools & Techniques: HTML, CSS, JavaScript, Node.js

WORK EXPERIENCE

Cognifyz Technologies — Data Science Intern Internship Certificate
July 2024 – August 2024

- Executed comprehensive analysis of real-time datasets to develop predictive models, thereby refining future trend forecasting accuracy.
- Implemented advanced machine learning methodologies to enhance model precision and deliver actionable insights.
- Employed data visualization tools, including Folium for geospatial mapping, and Matplotlib, Seaborn, Tableau, and Power BI for the creation of insightful dashboards.

CERTIFICATIONS

Great Learning: Data Science with Python, Data Visualization using Tableau, Statistical Analysis
IBM: Machine Learning using Watson, Introduction to Python
Udemy: The Complete Data Science Course, Machine Learning A-Z

JOB SIMULATION

BCG Data Science Job Simulation on Forage - September 2024 **Certificate**